

# JVC

## SERVICE MANUAL

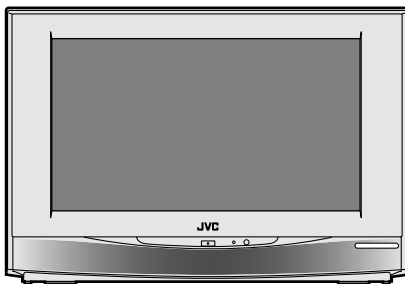
### COLOUR TELEVISION

**AV-28H5BU, AV-28H5BL, AV-28H5SK,  
AV-28H5SL, AV28H5SR, AV-28H5SU,  
AV-28H50SU, AV-32H5BU, AV-32H5SK,  
AV-32H5SR, AV-32H5SU, AV-32H50SU,  
AV-32H57SU**

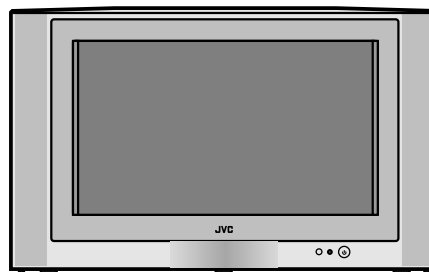
BASIC CHASSIS

ML3

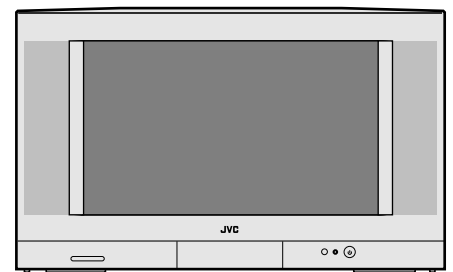
**T-V LINK**



AV-28H5BU, AV-28H5BL  
AV-28H5SK, AV-28H5SL  
AV-28H5SR, AV-28H5SU  
AV-32H5BU, AV-32H5SK  
AV-32H5SR, AV-32H5SU



AV-28H50SU, AV-32H50SU



AV-32H57SU

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# SPECIFICATION

Items		Contents		
		AV-28H5BU AV-28H5BL AV-28H5SU AV-28H5SL	AV-28H50SU	AV-28H5SK AV-28H5SR
Dimensions ( W × H × D )		76.2 cm × 52.8 cm × 49.2 cm	85.4 cm × 50.8 cm × 49.0 cm	76.2 cm × 52.8 cm × 49.2 cm
Mass		38.0 kg	39.0 kg	38.0 kg
TV RF System		CCIR (B/G, I, D/K, L)		CCIR (I)
Colour System		PAL SECAM NTSC3.58 / NTSC4.43 (Only EXT mode)		PAL NTSC3.58 / NTSC4.43 (Only EXT mode)
Stereo System		A2 (B/G, D/K) NICAM (B/G, I, D/K, L)		NICAM (I)
Receiving Frequency	VHF	47 MHz - 470 MHz [Except AV-28H5SK]		
	UHF	470 MHz - 862 MHz		
	French CATV	116 MHz - 172 MHz 220 MHz - 469 MHz		---
Intermediate Frequency	VIF	38.9 MHz (B/G, I, D/K, L)		38.9 MHz (I)
	SIF	33.4 MHz (5.5 MHz :B/G) 32.9 MHz ( 6.0 MHz:I ) 32.4 MHz (6.5 MHz :L, D/K)		32.9 MHz ( 6.0 MHz:I )
Colour Sub Carrier Frequency	PAL	4.43 MHz		
	SECAM	4.40625 MHz / 4.25 MHz		---
	NTSC	3.58 MHz / 4.43 MHz		
Teletext System		TOP (German system) FLOF (Fastext) WST (Standard system)		
Power Input		AC220 V - AC240 V, 50 Hz		
Power Consumption		120 W, Standby : 0.6 W	120 W, Standby : 2.5 W	120 W, Standby : 0.6 W
Picture Tube		Visible size : 66 cm [measured diagonally (H : 58.3 cm × V : 33.0 cm)]		
High Voltage		31.0 kV (+1 kV / -1.5 kV) (at zero beam current)		
Speaker		13 cm × 6.5 cm oval type × 2		
Audio Power Output		10 W + 10 W		
Aerial Input Terminal		75 Ω unbalanced, coaxial		
EXT-1 / EXT-2 / EXT-3 (Input / Output)		21-pin Euro connector (SCART socket × 3)		
EXT-4 (Input)	S-Video	Mini-Din 4 pin × 1 Y : 1 V(p-p) positive (negative sync, 75Ω) C : 0.3 V(p-p) (Burst signal, 75Ω)		
	Video	1 V(p-p) 75 Ω, RCA pin jack × 1		
	Audio (L/R)	500 mV(rms) (-4 dBs), High impedance, RCA pin jack × 2		
Audio output		0-1000 mV (rms), Low impedance, RCA pin jack × 2		
Headphone Jack		3.5 mm stereo mini jack × 1		
Remote Control Unit		RM-C1502 (AA/R6 dry cell battery × 2) [AV-28H5SU/AV-28H5SL/AV-28H5SK/AV-28H5SR/AV-28H50SU] RM-C1502B (AA/R6 dry cell battery × 2) [AV-28H5BU/AV-28H5BL]		

Design & specifications are subject to change without notice.

Items		Contents			
		AV-32H5BU AV-32H5SU	AV-32H50SU	AV-32H57SU	AV-32H5SK AV-32H5SR
Dimensions ( W × H × D )		86.4 cm × 58.7 cm × 55.0 cm	94.6 cm × 56.1 cm × 54.7 cm	94.8 cm × 56.2 cm × 55.0 cm	86.4 cm × 58.7 cm × 55.0 cm
Mass		53.0 kg		52.5 kg	53.0 kg
TV RF System		CCIR (B/G, I, D/K, L)			CCIR (I)
Colour System		PAL SECAM NTSC3.58 / NTSC4.43 (Only EXT mode)			PAL NTSC3.58 / NTSC4.43 (Only EXT mode)
Stereo System		A2 (B/G, D/K) NICAM (B/G, I, D/K, L)			NICAM (I)
Receiving Frequency	VHF	47 MHz - 470 MHz [Except AV-32H5SK]			
	UHF	470 MHz - 862 MHz			
	French CATV	116 MHz - 172 MHz 220 MHz - 469 MHz			---
Intermediate Frequency	VIF	38.9 MHz (B/G, I, D/K, L)			38.9 MHz (I)
	SIF	33.4 MHz (5.5 MHz :B/G) 32.9 MHz ( 6.0 MHz:I ) 32.4 MHz (6.5 MHz :L, D/K)			32.9 MHz ( 6.0 MHz:I )
Colour Sub Carrier Frequency	PAL	4.43 MHz			
	SECAM	4.40625 MHz / 4.25 MHz			---
	NTSC	3.58 MHz / 4.43 MHz			
Teletext System		TOP (German system) FLOF (Fastext) WST (Standard system)			
Power Input		AC220 V - AC240 V, 50 Hz			
Power Consumption		130 W, Standby : 0.6 W	130 W, Standby : 2.5 W	130 W, Standby : 2.5 W	130 W, Standby : 0.6 W
Picture Tube		Visible size : 76 cm [measured diagonally] (H : 67.4 cm × V : 38.4 cm)			
High Voltage		31.0 kV (+1 kV / -1.5 kV) (at zero beam current)			
Speaker		13 cm × 6.5 cm oval type × 2			
Audio Power Output		10 W + 10 W			
Aerial Input Terminal		75 Ω unbalanced, coaxial			
EXT-1 / EXT-2 / EXT-3 (Input / Output)		21-pin Euro connector (SCART socket × 3)			
EXT-4 (Input)	S-Video	Mini-Din 4 pin × 1 Y : 1 V(p-p) positive (negative sync, 75Ω) C : 0.3 V(p-p) (Burst signal, 75Ω)			
	Video Audio (L/R)	1 V(p-p) 75 Ω, RCA pin jack × 1 500 mV(rms) (-4 dBs), High impedance, RCA pin jack × 2			
Audio output		0-1000 mV (rms), Low impedance, RCA pin jack × 2			
Headphone Jack		3.5 mm stereo mini jack × 1			
Remote Control Unit		RM-C1502 (AA/R6 dry cell battery × 2) [AV-32H5SU/AV-32H5SK/AV-32H5SR/AV-32H50SU/AV-32H57SU] RM-C1502B (AA/R6 dry cell battery × 2) [AV-32H5BU]			

Design & specifications are subject to change without notice.

# SECTION 1

## PRECAUTION

### 1.1 SAFETY PRECAUTIONS [EXCEPT FOR UK]

- (1) The design of this product contains special hardware, many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
- (2) Alterations of the design or circuitry of the products should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
- (3) Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. **Electrical components having such features are identified by shading on the schematics and by (  $\Delta$  ) on the parts list in Service manual.** The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of Service manual may cause shock, fire, or other hazards.
- (4) **Don't short between the LIVE side ground and ISOLATED (NEUTRAL) side ground or EARTH side ground when repairing.**  
Some model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (  $\perp$  ) side GND, the ISOLATED (NEUTRAL) : (  $\equiv$  ) side GND and EARTH : (  $\oplus$  ) side GND.  
Don't short between the LIVE side GND and ISOLATED (NEUTRAL) side GND or EARTH side GND and never measure the LIVE side GND and ISOLATED (NEUTRAL) side GND or EARTH side GND at the same time with a measuring apparatus (oscilloscope etc.). If above note will not be kept, a fuse or any parts will be broken.
- (5) If any repair has been made to the chassis, it is recommended that the B1 setting should be checked or adjusted (See B1 POWER SUPPLY check).
- (6) The high voltage applied to the picture tube must conform with that specified in Service manual. Excessive high voltage can cause an increase in X-Ray emission, arcing and possible component damage, therefore operation under excessive high voltage conditions should be kept to a minimum, or should be prevented. If severe arcing occurs, remove the AC power immediately and determine the cause by visual inspection (incorrect installation, cracked or melted high voltage harness, poor soldering, etc.). To maintain the proper minimum level of soft X-Ray emission, components in the high voltage circuitry including the picture tube must be the exact replacements or alternatives approved by the manufacturer of the complete product.
- (7) Do not check high voltage by drawing an arc. Use a high voltage meter or a high voltage probe with a VTVM. Discharge the picture tube before attempting meter connection, by connecting a clip lead to the ground frame and connecting the other end of the lead through a 10k $\Omega$  2W resistor to the anode button.

- (8) When service is required, observe the original lead dress. Extra precaution should be given to assure correct lead dress in the high voltage circuit area. Where a short circuit has occurred, those components that indicate evidence of overheating should be replaced. Always use the manufacturer's replacement components.

#### (9) Isolation Check (Safety for Electrical Shock Hazard)

After re-assembling the product, always perform an isolation check on the exposed metal parts of the cabinet (antenna terminals, video/audio input and output terminals, Control knobs, metal cabinet, screw heads, earphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

##### a) Dielectric Strength Test

The isolation between the AC primary circuit and all metal parts exposed to the user, particularly any exposed metal part having a return path to the chassis should withstand a voltage of 3000V AC (r.m.s.) for a period of one second. ( . . . Withstand a voltage of 1100V AC (r.m.s.) to an appliance rated up to 120V, and 3000V AC (r.m.s.) to an appliance rated 200V or more, for a period of one second.) This method of test requires a test equipment not generally found in the service trade.

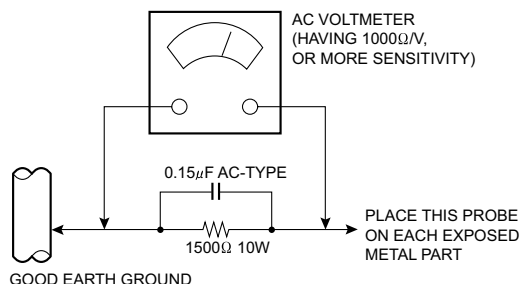
##### b) Leakage Current Check

Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe, etc.). Any leakage current must not exceed 0.5mA AC (r.m.s.). However, in tropical area, this must not exceed 0.2mA AC (r.m.s.).


#### Alternate Check Method

Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Use an AC voltmeter having 1000 $\Omega$ /V or more sensitivity in the following manner. Connect a 1500 $\Omega$  10W resistor paralleled by a 0.15 $\mu$ F AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.). Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75V AC (r.m.s.). This corresponds to 0.5mA AC (r.m.s.).

However, in tropical area, this must not exceed 0.3V AC (r.m.s.). This corresponds to 0.2mA AC (r.m.s.).



## 1.2 SAFETY PRECAUTIONS [FOR UK]

- (1) The design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
- (2) Alterations of the design or circuitry of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
- (3) Many electrical and mechanical parts in the product have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessary be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (  ) on the Parts List in the Service Manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the Parts List of Service Manual may cause shock, fire, or other hazards.
- (4) The leads in the products are routed and dressed with ties, clamps, tubing's, barriers and the like to be separated from live parts, high temperature parts, moving parts and / or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.

### WARNING

- (1) The equipment has been designed and manufactured to meet international safety standards.
- (2) It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
- (3) Repairs must be made in accordance with the relevant safety standards.
- (4) It is essential that safety critical components are replaced by approved parts.
- (5) If mains voltage selector is provided, check setting for local voltage.

## SECTION 2

### SPECIFIC SERVICE INSTRUCTIONS

#### 2.1 FEATURES

##### ZOOM

This function can change the screen size according to the picture aspect ratio.

##### PICTURE MODE

This function can adjust the picture settings automatically.

##### T-V LINK

When you have a T-V LINK compatible VCR connected to the EXT-2 Terminal on the TV, it is easier to set up the VCR and to view videos.

##### DIGITAL VNR

This function cuts down the amount of noise in the original picture.

##### HYPER SOUND

You can enjoy sounds with a wider ambience.

#### 2.2 MAIN DIFFERENCE LIST

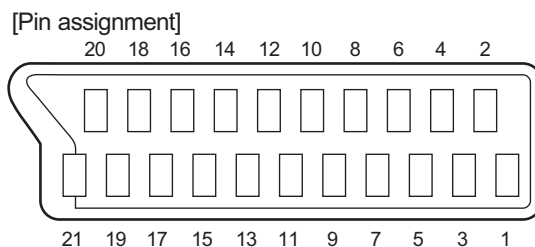
Item	AV-28H5BU	AV-28H5BL	AV-28H5SK	AV-28H5SL	AV28H5SR	AV-28H5SU	AV-28H50SU
CABINET COLOUR	BLACK	←	SILVER	←	←	←	←
RF SYSTEM	PAL,SECAM	←	PAL	PAL,SECAM	PAL	PAL,SECAM	←
BROADCASTING SYSTEM	B/G, D/K, I, L	←	I	B/G, D/K, I, L	I	B/G, D/K, I, L	←
REMOTE CONTROL UNIT	RM-C1502B	←	RM-C1502	←	←	←	←
MAIN PWB	SML-1302A-U2	←	SML-1932A-U2	SML-1302A-U2	←	←	←
POWER & DEF PWB	SML-2302A-S2	←	←	←	SML-2302A-U2	SML-2302A-S2	←
CRT SOCKET PWB	SML-3302A-U2	←	←	←	←	←	←
SIDE CONTROL PWB	SML-8131A-U2	←	←	←	←	←	SML-8133A-U2
FRONT CONTORL PWB	SML-8301A-U2	←	←	←	←	←	SML-8302A-U2
AV JACK PWB	SML0J301A-U2	←	←	←	←	←	←
100HZ PWB	SML0Z301A-U2	←	←	←	←	←	←

Item	AV-32H5BU	AV-32H5SK	AV-32H5SR	AV-32H5SU	AV-32H50SU	AV-32H57SU
CABINET COLOUR	BLACK	SILVER	←	←	←	←
RF SYSTEM	PAL,SECAM	PAL	←	PAL,SECAM	←	←
BROADCASTING SYSTEM	B/G, D/K, I, L	I	←	B/G, D/K, I, L	←	←
REMOTE CONTROL UNIT	RM-C1502B	RM-C1502	←	←	←	←
MAIN PWB	SML-1301A-U2	SML-1931A-U2	SML-1301A-U2	←	←	←
POWER & DEF PWB	SML-2301A-S2	←	SML-2301A-U2	SML-2301A-S2	←	SML-2301A-U2
CRT SOCKET PWB	SML-3301A-U2	←	←	←	←	←
SIDE CONTROL PWB	SML-8131A-U2	←	←	←	SML-8133A-U2	←
FRONT CONTORL PWB	SML-8301A-U2	←	←	←	SML-8302A-U2	←
AV JACK PWB	SML0J301A-U2	←	←	←	←	←
100HZ PWB	SML0Z301A-U2	←	←	←	←	←

### 2.3 21-PIN EURO CONNECTOR (SCART) : EXT-1/EXT-2/EXT-3

Pin No.	Signal designation	Matching value	EXT-1	EXT-2	EXT-3
1	AUDIO R output	500mV(rms) (Nominal), Low impedance	Used (TV OUT)	Used (LINE OUT)	Not used
2	AUDIO R input	500mV(rms) (Nominal), High impedance	Used (R1)	Used (R2)	Used (R3)
3	AUDIO L output	500mV(rms) (Nominal), Low impedance	Used (TV OUT)	Used (LINE OUT)	Not used
4	AUDIO GND		Used	Used	Used
5	GND (B)		Used	Used	Used
6	AUDIO L input	500mV(rms) (Nominal), High impedance	Used (L1)	Used (L2)	Used (L3)
7	B input	700mV <sub>(B-W)</sub> , 75Ω	Used	Used	Not used
8	FUNCTION SW (SLOW SW)	Low : 0V-3V High : 8V-12V, High impedance	Used	Used	Used
9	GND (G)		Used	Used	Used
10	SCL / T-V LINK		Not used	Used (SCL2 / TV-LINK)	Not used
11	G input	700mV <sub>(B-W)</sub> , 75Ω	Used	Used	Not used
12	SDA		Not used	Used (SDA2)	Not used
13	GND (R)		Used	Used	Used
14	GND (YS)		Used	Not used	Not used
15	R / C input	R : 700mV <sub>(B-W)</sub> , 75Ω C : 300mV <sub>(P-P)</sub> , 75Ω	Used (R)	Used (C2/R)	Used (C3)
16	Ys input (FAST SW)	Low : 0V-0.4V, High : 1V-3V, 75Ω	Used	Used	Not used
17	GND (VIDEO output)		Used	Used	Used
18	GND (VIDEO input)		Used	Used	Used
19	VIDEO output	1V <sub>(P-P)</sub> (Negative sync), 75Ω	Used (TV OUT)	Used (LINE OUT)	Not used
20	VIDEO / Y input	1V <sub>(P-P)</sub> (Negative sync), 75Ω	Used	Used	Used
21	COMMON GND		Used	Used	Used

(P-P= Peak to Peak, B-W= Blanking to white peak)



## 2.4 TECHNICAL INFORMATION

### 2.4.1 MAIN MI-COM (CPU) PIN FUNCTION

Pin No.	Pin name	I/O	Function	Pin No.	Pin name	I/O	Function
1	D1	I/O	Data bit for SRAM	51	NC	--	Not used
2	D4	I/O	Data bit for SRAM	52	XTAL2	I	System clock (6MHz)
3	D2	I/O	Data bit for SRAM	53	XTAL1	O	System clock (6MHz)
4	D3	I/O	Data bit for SRAM	54	NC	--	Not used
5	XROM	I	External ROM access (Enable: L)	55	VSSA	--	GND
6	VDD25	I	2.5V	56	VDDA25	I	2.5V
7	VSS25	--	GND	57	R	O	Red for OSD / Teletext
8	VDD33	I	3.3V	58	G	O	Green for OSD / Teletext
9	P0.0	O	I2C bus clock for E2PROM	59	B	O	Blue for OSD / Teletext
10	P0.1	I/O	I2C bus data for E2PROM	60	BLANK/COR	O	Output for blanking and contrast reduction
11	P0.2	O	I2C bus clock for generally	61	NC	--	Not used
12	P0.3	I/O	I2C bus data for generally	62	P1.7	O	Not used
13	P0.4	O	Not used	63	NC	--	Not used
14	P0.5	O	Not used	64	WR	O	External memory write strobe for SRAM
15	P0.6	O	Audio muting (Muting: H)	65	RD	O	External memory read strobe for SRAM
16	P0.7	O	Power on/off control (ON: L)	66	NC	--	Not used
17	ENE	I	Not used	67	A19	O	Address bit for SRAM
18	STOP	I	Not used	68	A18	O	Address bit for SRAM
19	OCF	I	Not used	69	A17	O	Address bit for SRAM
20	EXTIF	I	Extended memory interface (Enable: L)	70	A16	O	Address bit for SRAM
21	CVBS	I	Composite video signal input	71	A15	O	Address bit for SRAM
22	VDDA25	I	2.5V	72	FL_RGM	I	Not used
23	VSSA	--	GND	73	VDD25	I	2.5V
24	P2.0	I	AFC voltage from tuner	74	VSS	--	GND
25	P2.1	I	Key scan from front control CH+ CH- MENU	75	VDD33	I	3.3V
26	P2.2	I	AGC voltage from tuner	76	A14	O	Address bit for SRAM
27	P2.3	O	Not used	77	A12	O	Address bit for SRAM
28	NC	--	Not used	78	A13	O	Address bit for SRAM
29	HS/SSC	I	Horizontal sync	79	A7	O	Address bit for SRAM
30	VS	I	Vertical sync	80	FL_RST	I	Not used
31	P3.0	O	Not used	81	A8	O	Address bit for SRAM
32	P3.1	O	Not used	82	A6	O	Address bit for SRAM
33	P3.2	I	Remote control	83	A9	O	Address bit for SRAM
34	P3.3	I	Receive data from TV_LINK	84	A5	O	Address bit for SRAM
35	P3.4	O	DDP reset (Reset: H)	85	A11	O	Address bit for SRAM
36	P3.5	I	X-ray HB LB EW correction Protection detection (Normal: H)	86	A4	O	Address bit for SRAM
37	P3.6	I/O	Not used	87	ALE	O	Enable for address latch
38	P3.7	I	Not used	88	PSEN	O	Enable for program store
39	VSS	--	GND	89	A3	O	Address bit for SRAM
40	VDD33	I	3.3V	90	A10	O	Address bit for SRAM
41	P1.0	O	Not used	91	VSS	--	GND
42	P1.1	O	Not used	92	VDD33	I	3.3V
43	P1.2	O	Not used	93	A2	O	Address bit for SRAM
44	P1.3	O	Output data for TV_LINK	94	A1	O	Address bit for SRAM
45	P1.4	O	MSP reset (Reset: H)	95	FL_CE	I	Not used
46	P1.5	O	Not used	96	D7	I/O	Data bit for SRAM
47	P1.6	O	Power indication control (ON: L)	97	A0	O	Address bit for SRAM
48	P4.2	O	Not used	98	D6	I/O	Data bit for SRAM
49	P4.3	O	Not used	99	D0	I/O	Data bit for SRAM
50	RST	I	Reset for main CPU	100	D5	I/O	Data bit for SRAM



## SECTION 3

### DISASSEMBLY

#### 3.1 DISASSEMBLY PROCEDURE [H5 series]

##### 3.1.1 REMOVING THE REAR COVER

- (1) Remove the 13 screws **[A]**, then withdraw the REAR COVER toward you.

##### 3.1.2 REMOVING THE SIDE CONTROL JACK ASS'Y

- Remove the REAR COVER.
  - (1) Remove the 1 screw **[B]** and 1 claw, then remove the SIDE CONTROL JACK ASS'Y.

##### 3.1.3 REMOVING THE SIDE CONTROL PWB

- Remove the REAR COVER.
- Remove the SIDE CONTROL JACK ASS'Y.
  - (1) Remove the 2 screws **[C]**, then remove the SIDE CONTROL PWB.

##### 3.1.4 REMOVING THE CHASSIS BASE

- Remove the REAR COVER.
  - (1) Slightly raise the both sides of the chassis by hand and remove the 2 claws under the both sides of the CHASSIS BASE from the front cabinet.
  - (2) Withdraw the CHASSIS backward.  
(If necessary, take off the wire clamp, connectors etc.)

##### 3.1.5 REMOVING THE AV TERMINAL BOARD

- Remove the REAR COVER.
  - (1) Remove the 3 screws **[D]**.
  - (2) Remove the 2 claws under the CHASSIS, then remove the AV TERMINAL BOARD.

##### 3.1.6 REMOVING THE SPEAKER

- Remove the REAR COVER.
- Remove the SIDE CONTROL JACK ASS'Y.
- Remove the CHASSIS BASE.
  - (1) Remove the 4 screws **[E]**, then remove the SPEAKER.
  - (2) Follow the same steps when removing the other hand SPEAKER.

##### 3.1.7 CHECKING THE PW BOARD

- To check the back side of the PW Board.
  - (1) Pull out the CHASSIS BASE. (Refer to REMOVING THE CHASSIS BASE).
  - (2) Erect the CHASSIS BASE vertically with the HVT side facing up so that you can easily check the back side of the PW board.

##### CAUTION:

- When erecting the CHASSIS BASE, be careful so that there will be no contacting with other PW Board.
- Before turning on power, make sure that the wire connector is properly connected.
- When conducting a check with power supplied, be sure to confirm that the CRT EARTH WIRE (BRAIDED ASS'Y) is connected to the CRT SOCKET PWB.

##### 3.1.8 WIRE CLAMPING AND CABLE TYING

- (1) Be sure to clamp the wire.
- (2) Never remove the cable tie used for tying the wires together. Should it be inadvertently removed, be sure to tie the wires with a new cable tie.

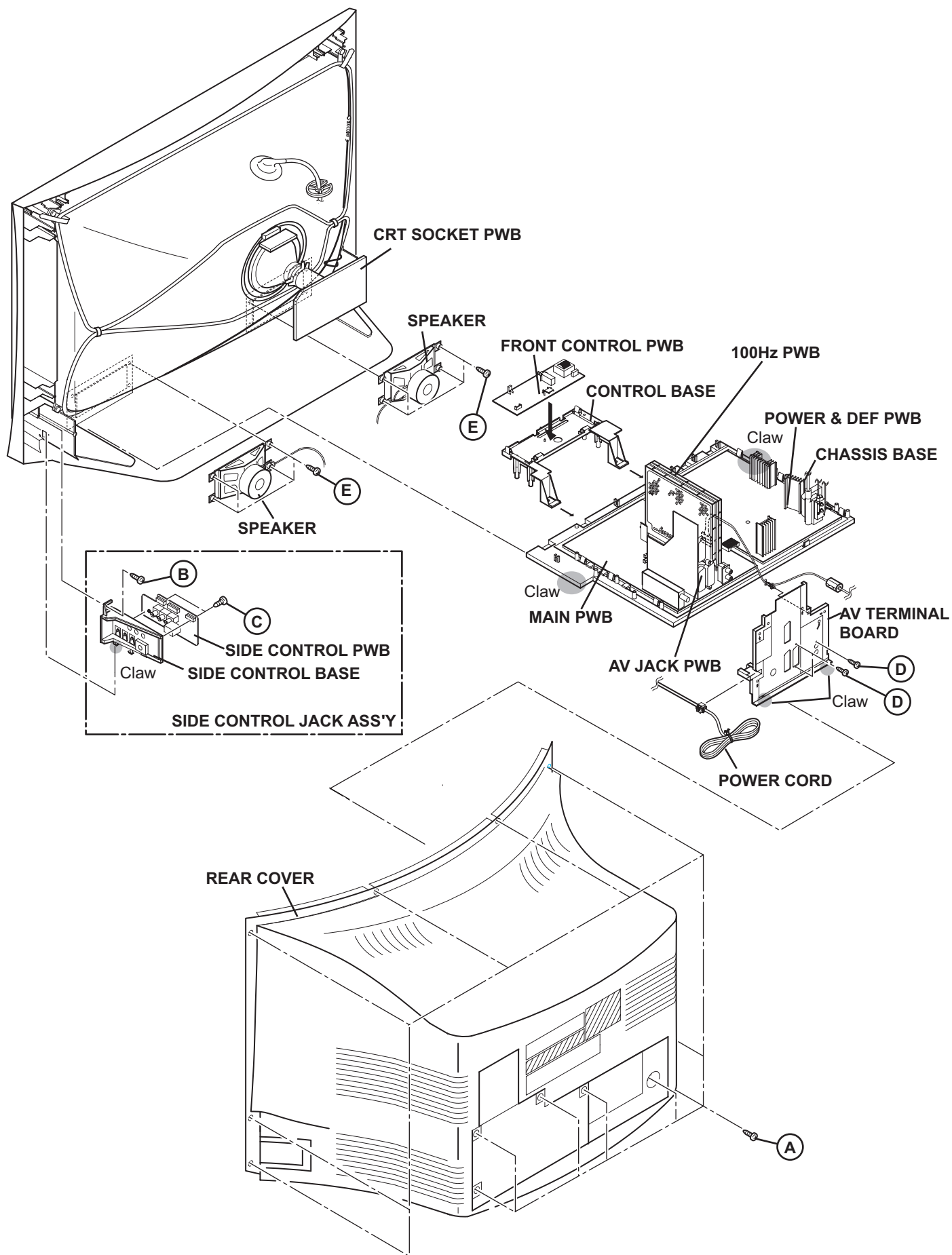


Fig.1

## **3.2 DISASSEMBLY PROCEDURE [H50/H57 series]**

### **3.2.1 REMOVING THE REAR COVER**

- (1) Remove the 13 screws **[A]**, then withdraw the REAR COVER toward you.

### **3.2.2 REMOVING THE SIDE CONTROL JACK ASS'Y**

- Remove the REAR COVER.
  - (1) Remove the 1 screw **[B]**, then remove the SIDE CONTROL JACK ASS'Y.

### **3.2.3 REMOVING THE SIDE CONTROL PWB**

- Remove the REAR COVER.
- Remove the SIDE CONTROL JACK ASS'Y.
  - (1) Remove the 2 claws, then remove the SIDE CONTROL PWB.

### **3.2.4 REMOVING THE CHASSIS BASE**

- Remove the REAR COVER.
  - (1) Slightly raise the both sides of the chassis by hand and remove the 2 claws under the both sides of the CHASSIS BASE from the front cabinet.
  - (2) Withdraw the CHASSIS backward.  
(If necessary, take off the wire clamp, connectors etc.)

### **3.2.5 REMOVING THE AV TERMINAL BOARD**

- Remove the REAR COVER.
  - (1) Remove the 3 screws **[C]**.
  - (2) Remove the 2 claws under the CHASSIS, then remove the AV TERMINAL BOARD.

### **3.2.6 REMOVING THE SPEAKER**

- Remove the REAR COVER.
- Remove the SIDE CONTROL JACK ASS'Y.
- Remove the CHASSIS BASE.
  - (1) Remove the 2 screws **[D]**, then remove the SPEAKER with SPEAKER ADAPTER.
  - (2) Remove the 4 screws **[E]**, then remove the SPEAKER from SPEAKER ADAPTER.
  - (3) Follow the same steps when removing the other hand SPEAKER.

### **3.2.7 CHECKING THE PW BOARD**

- To check the back side of the PW Board.
  - (1) Pull out the CHASSIS BASE. (Refer to REMOVING THE CHASSIS BASE).
  - (2) Erect the CHASSIS BASE vertically with the HVT side facing up so that you can easily check the back side of the PW board.

#### **CAUTION:**

- When erecting the CHASSIS BASE, be careful so that there will be no contacting with other PW Board.
- Before turning on power, make sure that the wire connector is properly connected.
- When conducting a check with power supplied, be sure to confirm that the CRT EARTH WIRE (BRAIDED ASS'Y) is connected to the CRT SOCKET PWB.

### **3.2.8 WIRE CLAMPING AND CABLE TYING**

- (1) Be sure to clamp the wire.
- (2) Never remove the cable tie used for tying the wires together. Should it be inadvertently removed, be sure to tie the wires with a new cable tie.

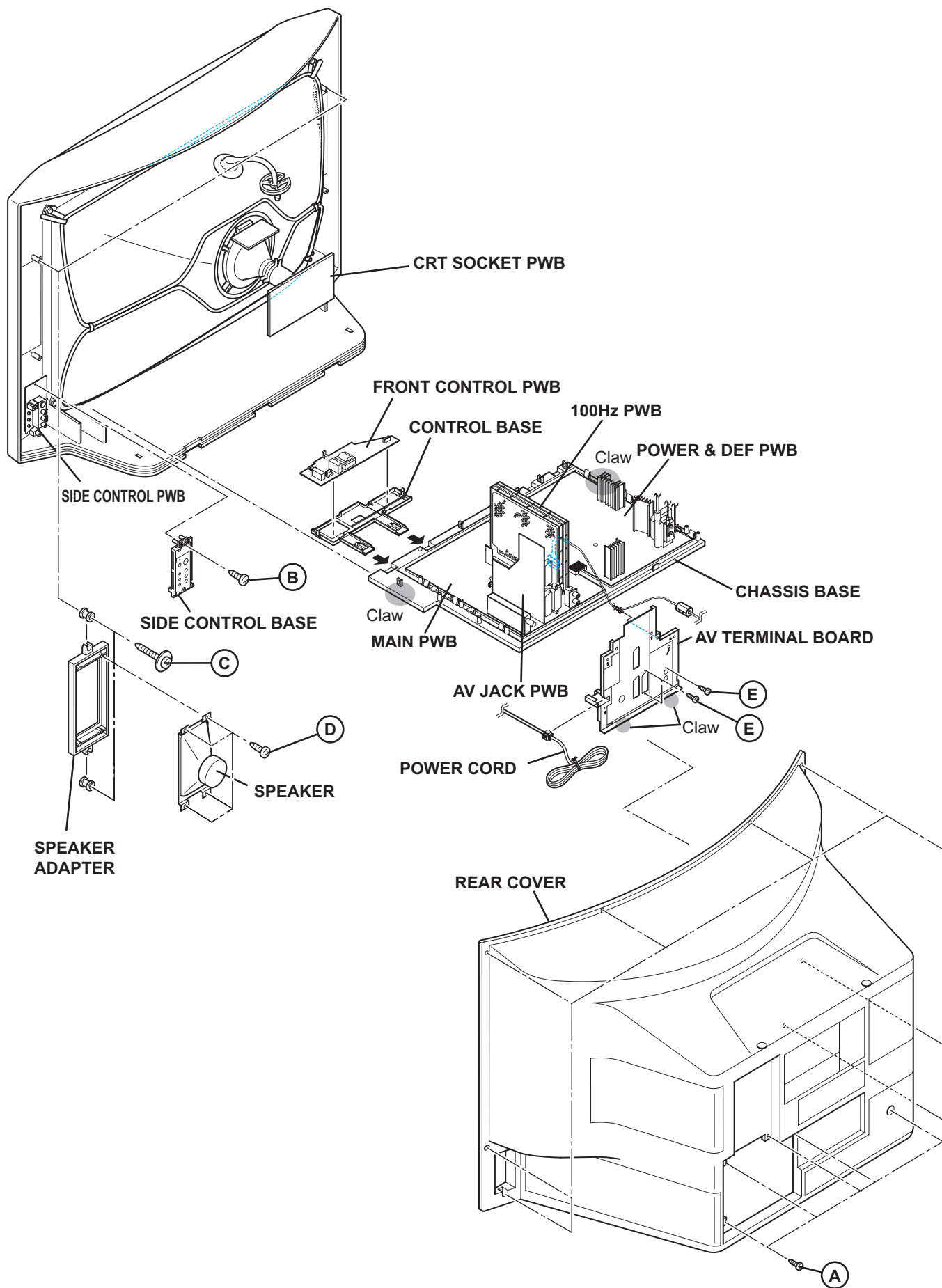


Fig.1

### 3.3 REMOVING THE CRT

#### NOTE:

- Replacement of the CRT should be performed by 2 or more persons.
  - After removing the REAR COVER, CHASSIS etc.,
- (1) Putting the CRT change table on soft cloth, the CRT change table should also be covered with such soft cloth (shown in Fig. 2).
  - (2) While keeping the surface of CRT down, mount the TV set on the CRT change table balanced well as shown in Fig. 2.
  - (3) Remove 4 screws marked by arrows with a box type screw-driver as shown in Fig. 3.

#### NOTE:

Since the cabinet will drop when screws have been removed, be sure to support the cabinet with hands.

- (4) After 4 screws have been removed, put the cabinet slowly on cloth (At this time, be carefully so as not to damage the front surface of the cabinet) shown in Fig. 4.

#### NOTE:

- The CRT should be assembled according to the opposite sequence of its dismantling steps.
- The CRT change table should preferably be smaller than the CRT surface, and its height be about 35cm.

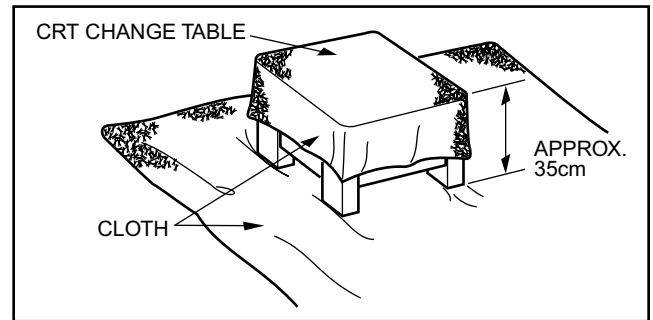


Fig.2

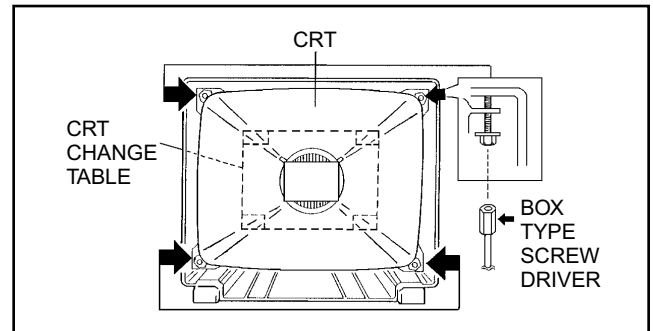


Fig.3

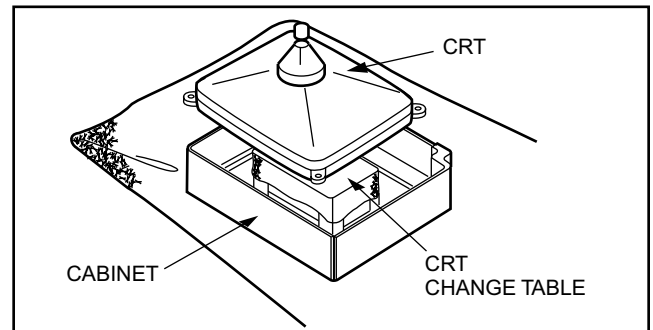


Fig.4

### COATING OF SILICON GREASE FOR ELECTRICAL INSULATION ON THE CRT ANODE CAP SECTION.

Subsequent to replacement of the CRT and HV transformer or repair of the anode cap, etc. by dismantling them, be sure to coat silicon grease for electrical insulation as shown in Fig.5. Wipe around the anode button with clean and dry cloth. (Fig.5) Coat silicon grease on the section around the anode button. At this time, take care so that any silicon greases do not stick to the anode button. (Fig.6)

**Silicon grease product No. KS - 650N**

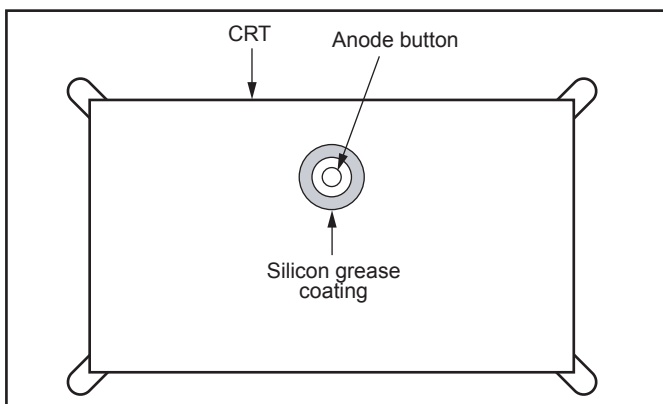


Fig.5

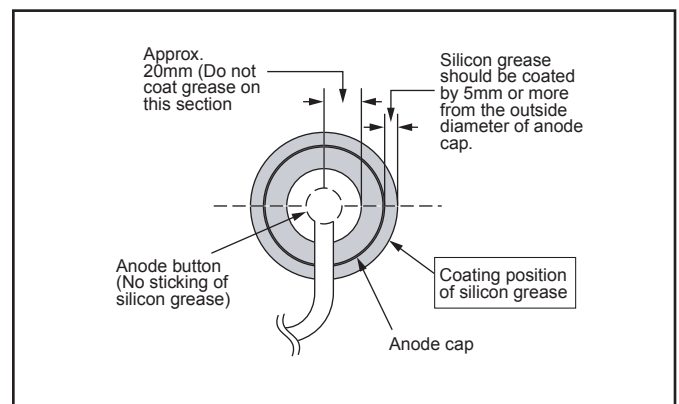


Fig.6

### 3.4 MEMORY IC REPLACEMENT

- This model uses the memory IC.
- This memory IC stores data for proper operation of the video and drive circuits.
- When replacing, be sure to use an IC containing this (initial value) data.

#### 3.4.1 MEMORY IC REPLACEMENT PROCEDURE

##### 1. Power off

Switch off the power and disconnect the power plug from the AC outlet.

##### 2. Replace the memory IC

Be sure to use the memory IC written with the initial setting values.

##### 3. Power on

Connect the power plug to the AC outlet and switch on the power.

##### 4. System constant check and setting

\* It must not adjust without signal.

- (1) Press the **[INFORMATION]** key and the **[MUTING]** key of the REMOTE CONTROL UNIT simultaneously.
- (2) The SERVICE MENU screen will be displayed (Fig. 1).
- (3) While the SERVICE MENU is displayed, press the **[INFORMATION]** key and **[MUTING]** key simultaneously, and the SYSTEM CONSTANT SET screen will be displayed (Fig. 2).
- (4) Check the setting values of the SYSTEM CONSTANT SET. If the value is different, select the setting item with the **[FUNCTION ▲ / ▼]** key, and set the correct value with the **[FUNCTION ◀ / ▶]** key.
- (5) Press the **[MENU]** key to memorize the setting value.
- (6) Press the **[INFORMATION]** key twice, and return to the normal screen.

##### 5. Receiving channel setting

Refer to the OPERATING INSTRUCTIONS and set the receive channels (Channels Preset) as described.

##### 6. User settings

Check the user setting items according to the given in page later. Where these do not agree, refer to the OPERATING INSTRUCTIONS and set the items as described.

##### 7. SERVICE MODE setting

Verify what to set in the SERVICE MODE, and set whatever is necessary (Fig.1). Refer to the SERVICE ADJUSTMENT for setting.

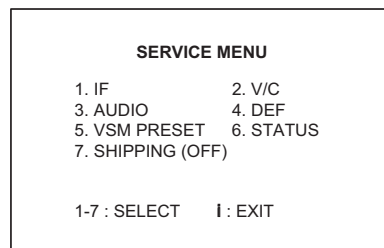
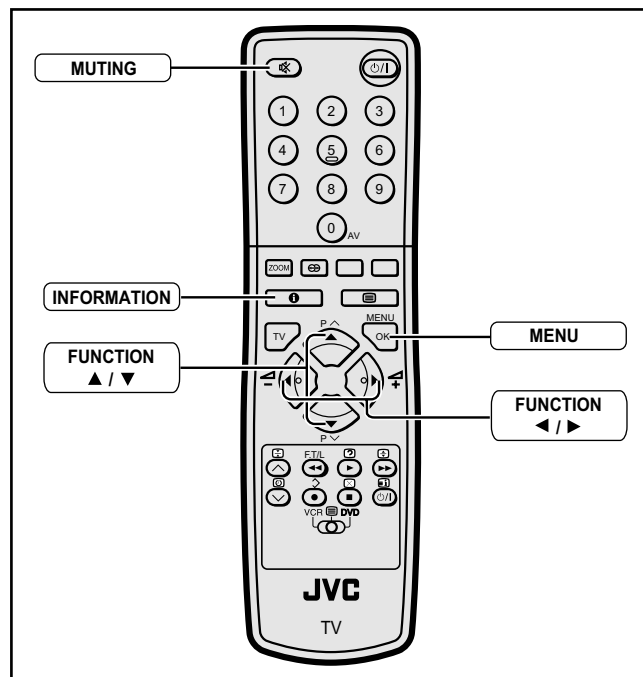


Fig.1



Fig.2



#### 3.4.2 SYSTEM CONSTANT SETTING

Setting item	Setting content	Setting value					
		AV-28H5BU AV-28H5SU AV-32H5BU AV-32H5SU	AV-28H5BL	AV-28H5SK AV-32H5SK	AV-28H5SL	AV-28H5SR AV-32H5SR	AV-28H50SU AV-32H50SU AV-32H57SU
1.DESTINATION	EU / EK / EI	EU	EU	EK	EU	EI	EU
2.CRT TYPE	16 : 9 / 4 : 3	16 : 9	16 : 9	16 : 9	16 : 9	16 : 9	16 : 9
3.PICTURE TILT	YES / NO	YES	YES	YES	YES	YES	YES
4.POWER BASS	YES / NO	NO	NO	NO	NO	NO	NO
5.SPATIAL SURR	YES / NO	NO	NO	NO	NO	NO	NO
6.PIC&TEXT	YES / NO	NO	NO	NO	NO	NO	NO
7.PROGRESSIVE	YES / NO	NO	NO	NO	NO	NO	NO

### 3.4.3 SETTINGS OF FACTORY SHIPMENT

#### 3.4.3.1 BUTTON OPERATION

Setting item	Setting position
POWER	Off
CHANNEL	PR1
VOLUME	10

#### 3.4.3.3 REMOTE CONTROL MENU OPERATION

##### (1) PICTURE SETTING

Setting item	Setting position
PICTURE MODE	BRIGHT
COLOUR TEMP	COOL

##### (2) PICTURE FEATURES

Setting item	Setting position
DIGITAL VNR	AUTO
COLOUR SYSTEM	TV : According to preset CH EXT : AUTO
4:3 AUTO ASPECT	PANORAMIC
PICTURE TILT	Middle

##### (3) SOUND SETTING

Setting item	Setting position
STEREO / I+II	Stereo sound
BASS	-5 [H5 series] Centre [H50 / H57 series]
TREBLE	Centre
BALANCE	Centre
HYPER SOUND	OFF

##### (7) VSM PRESET TABLE

Item	Variable range	Setting value					
		PICTURE MODE			COLOUR TEMP.		
		BRIGHT	STANDARD	SOFT	COOL	NORMAL	WARM
1.BRIGHT	-16~+16	0	0	0	---	---	---
2.CONT	-16~+16	+7	0	-3	---	---	---
3.COLOUR	-16~+16	0	0	0	---	---	---
4.SHARP	-16~+16	0	0	-2	---	---	---
5.HUE	-16~+16	0	0	0	---	---	---
1.WDR R	-64~+63	---	---	---	-15	0	+4
2.WDR G	-64~+63	---	---	---	-9	0	0
3.WDR B	-64~+63	---	---	---	0	0	0

#### 3.4.3.2 REMOTE CONTROL DIRECT OPERATION

Setting item	Setting position
CHANNEL	PR1
VOLUME	10
ZOOM	PANORAMIC

##### (4) EXT SETTING

Setting item	Setting position
ID	BLANK
S-IN	BLANK
DUBBING	EXT-1 → EXT-2

##### (5) FEATURES

Setting item	Setting position
SLEEP TIMER	OFF
CHILD LOCK	OFF
BLUE BACK	ON
DECODER (EXT-2)	OFF

##### (6) INSTALL

Setting item	Setting position
LANGUAGE	ENGLISH
AUTO PROGRAM	TV channel automatically set
EDIT/MANUAL	PRESET CH only The others : BLANK

### 3.4.4 SERVICE MODE SETING ITEMS

Setting item	Setting value	Setting item	Setting value
<b>1. IF</b>	1. VCO	<b>4. DEF</b>	1.V-SHIFT 2.V-SIZE 3.H-CENT 4.H-SIZE 5.TRAPEZ 6.EW-PIN 7.COR-UP 8.COR-LO 9.COR-UP-S 10.COR-LO-S 11.ANGLE 12.BOW 13.V-S.CR 14.V-LIN
<b>2. V/C</b>	1.RGB BLK 2.CUTOFF R 3.CUTOFF G 4.CUTOFF B 5.WDR R 6.WDR G 7.WDR B 8.BRIGHT 9.CONT. 10.COLOUR 11.HUE 12.SHARP 13.SC ADJ 14.SIDE.P.L 15.SIDE.P.R	<b>5. VSM PRESET</b>	<b>BRIGHT/SOFT/STANDARD</b> 1. BRIGHT 2. CONT 3. COLOUR 4. SHARP 5. HUE  <b>COOL/WARM/NORMAL</b> 1. WDR R 2. WDR G 3. WDR B
<b>3. AUDIO</b> [Do not adjust]	1.ERROR LIMIT 2.A2 ID THR 3.Q-PEAK 4.SOUND LEVEL	<b>6. STATUS</b> [Do not adjust]	---
		<b>7.SHIPPING (OFF)</b> [Do not adjust]	---



### 3.5 REPLACEMENT OF CHIP COMPONENT

#### 3.5.1 CAUTIONS

- (1) Avoid heating for more than 3 seconds.
- (2) Do not rub the electrodes and the resist parts of the pattern.
- (3) When removing a chip part, melt the solder adequately.
- (4) Do not reuse a chip part after removing it.

#### 3.5.2 SOLDERING IRON

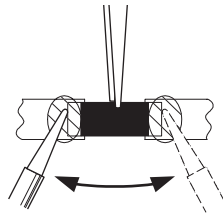
- (1) Use a high insulation soldering iron with a thin pointed end of it.
- (2) A 30w soldering iron is recommended for easily removing parts.

#### 3.5.3 REPLACEMENT STEPS

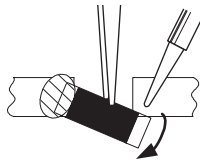
##### 1. How to remove Chip parts

[Resistors, capacitors, etc.]

- (1) As shown in the figure, push the part with tweezers and alternately melt the solder at each end.



- (2) Shift with the tweezers and remove the chip part.

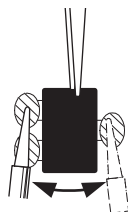


[Transistors, diodes, variable resistors, etc.]

- (1) Apply extra solder to each lead.



- (2) As shown in the figure, push the part with tweezers and alternately melt the solder at each lead. Shift and remove the chip part.



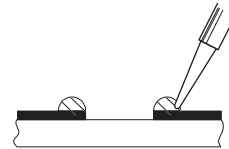
#### NOTE :

After removing the part, remove remaining solder from the pattern.

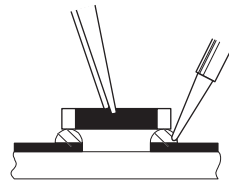
##### 2. How to install Chip parts

[Resistors, capacitors, etc.]

- (1) Apply solder to the pattern as indicated in the figure.

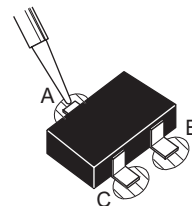


- (2) Grasp the chip part with tweezers and place it on the solder. Then heat and melt the solder at both ends of the chip part.

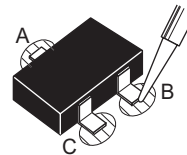


[Transistors, diodes, variable resistors, etc.]

- (1) Apply solder to the pattern as indicated in the figure.
- (2) Grasp the chip part with tweezers and place it on the solder.
- (3) First solder lead **A** as indicated in the figure.



- (4) Then solder leads **B** and **C**.



## SECTION 4 ADJUSTMENT

### 4.1 ADJUSTMENT PREPARATION

- (1) There are 2 ways of adjusting this TV : One is with the **REMOTE CONTROL UNIT** and the other is the conventional method using adjustment parts and components.
- (2) The adjustment using the **REMOTE CONTROL UNIT** is made on the basis of the initial setting values. The setting values which adjust the screen to the optimum condition can be different from the initial setting values.
- (3) Make sure that connection is correctly made AC to AC power source.
- (4) Turn on the power of the TV and measuring instruments for warming up for at least 30 minutes before starting adjustments.
- (5) If the receive or input signal is not specified, use the most appropriate signal for adjustment.
- (6) Never touch the parts (such as variable resistors, transformers and condensers) not shown in the adjustment items of this service adjustment.

### 4.2 PRESET SETTING BEFORE ADJUSTMENT

Unless otherwise specified in the adjustment items, preset the following functions with the **REMOTE CONTROL UNIT**.

Item	Preset value
PICTURE MODE	STANDARD
CONTRAST / BRIGHT / SHARP / COLOUR / HUE	Centre
COLOUR TEMP	NORMAL
DIGITAL VNR	AUTO
BASS / TREBLE / BALANCE	Centre
HYPER SOUND	OFF
ZOOM	FULL
SLEEP TIMER	OFF

### 4.3 MEASURING INSTRUMENT AND FIXTURES

- (1) DC voltmeter (or digital voltmeter)
- (2) Oscilloscope
- (3) Signal generator  
(Pattern generator : PAL / SECAM / NTSC)
- (4) Remote control unit

### 4.4 ADJUSTMENT ITEMS

#### ■ CHECK ITEM

- B1 VOLTAGE check
- HIGH VOLTAGE check
- IF VCO check

#### ■ FOCUS

- FOCUS adjustment

#### ■ DEFLECTION CIRCUIT

- V. POSITION adjustment
- V. SIZE adjustment
- H. POSITION adjustment
- H. SIZE adjustment
- SIDE-PIN adjustment
- TRAPEZIUM adjustment
- CORNER adjustment
- ANGLE adjustment
- BOW adjustment
- V. S-SHAPE CORRECTION & V.LINEARITY adjustment

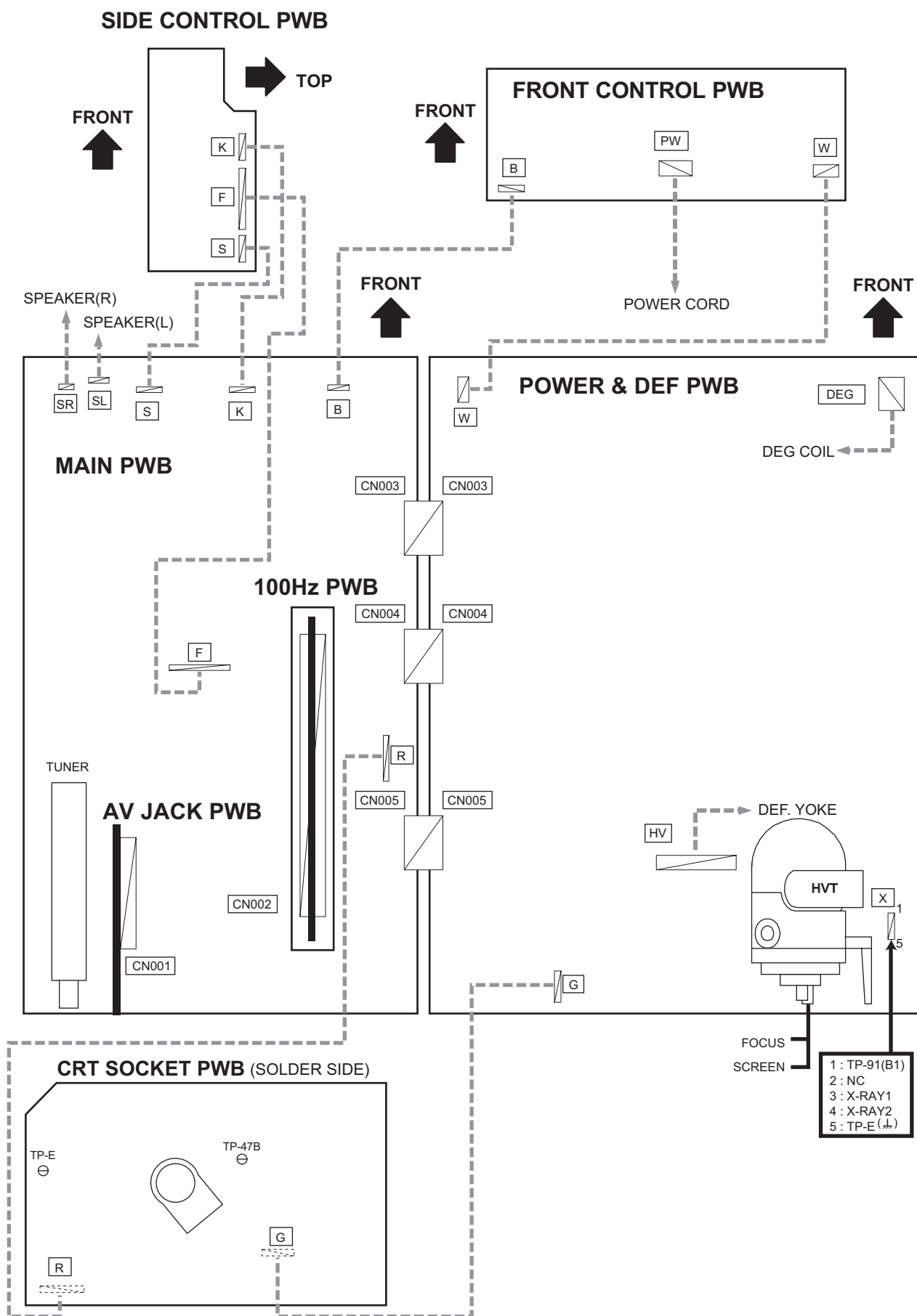
#### ■ VIDEO CIRCUIT

- WHITE BALANCE adjustment
- SUB BRIGHT adjustment
- SUB CONTRAST adjustment
- SUB COLOUR adjustment
- SUB HUE adjustment

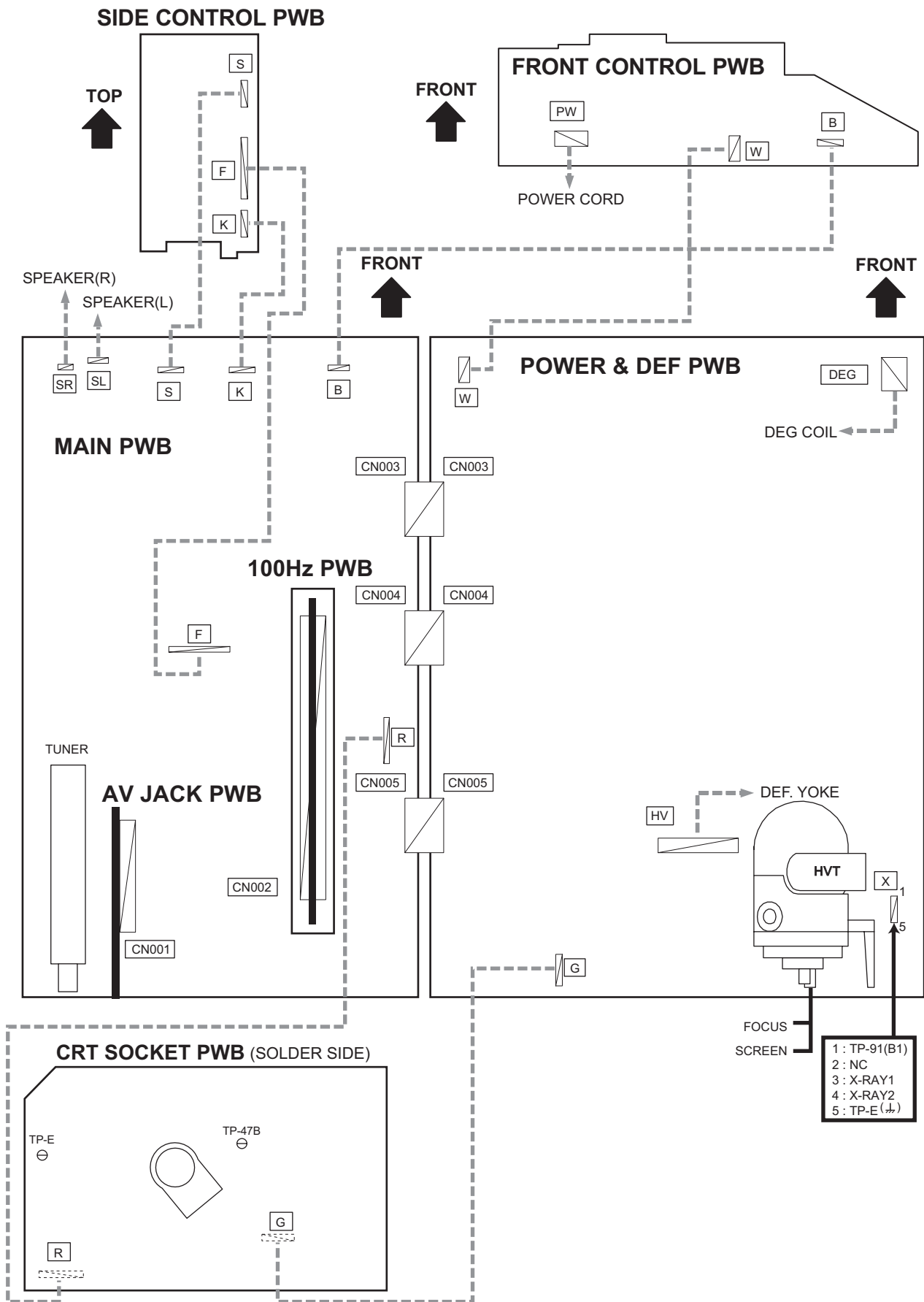
#### ■ VSM PRESET SETTING

- VSM PRESET setting

## 4.5 ADJUSTMENT LOCATIONS [H5 series]



#### 4.6 ADJUSTMENT LOCATIONS [H50/H57 series]



## 4.7 TOOL OF SERVICE MODE OPERATION

Operate the SERVICE MODE with the REMOTE CONTROL UNIT.

### 4.7.1 SERVICE MODE ITEMS

With the SERVICE MODE, various adjustment can be made, and they are broadly classified in the following items of settings.

- 1.IF** : This mode adjusts the setting values of the IF circuit.
- 2.V/C** : This mode adjusts the setting values of the VIDEO circuit.
- 3.AUDIO** : This mode adjusts the setting values of the MULTI-SOUND circuit. **[Do not adjust]**
- 4.DEF** : This mode adjusts the setting values of the DEFLECTION circuit.
- 5.VSM PRESET** : This mode adjusts the setting values of COOL, NORMAL and WARM. (VSM : Video Status Memory)
- 6.STATUS** : This mode is shows the monitor of VPS, PDC, WSS. **[Do not adjust]**
- 7.SHIPPING (OFF)** : This mode is set at shipping. **[Do not adjust]**

### 4.7.2 BASIC OPERATION IN SERVICE MODE

#### 4.7.2.1 HOW TO ENTER THE SERVICE MODE

Press the **[INFORMATION]** key and **[MUTING]** key of the REMOTE CONTROL UNIT simultaneously. Then SERVICE MODE screen will be displayed as shown figure.

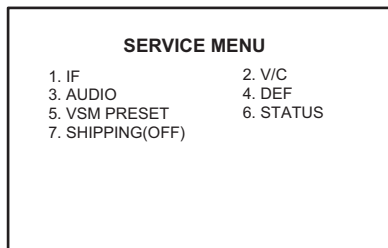


Fig.1

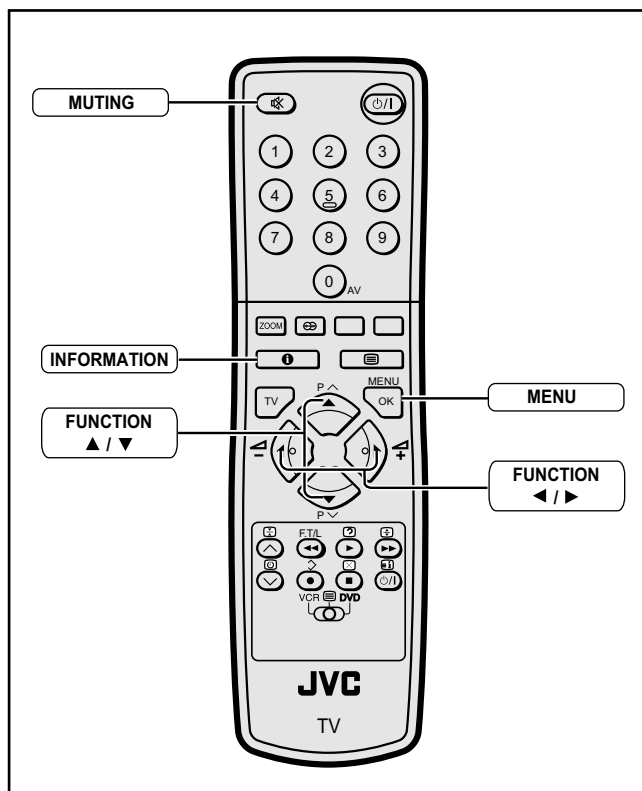


Fig.2

#### 4.7.2.2 SELECTION OF SUB MENU SCREEN

Press one of the CHANNEL number key with the remote control unit, and select the SUB MENU SCREEN from SERVICE MODE.

#### 4.7.2.3 SETTING METHOD

##### ■ 1.IF

[1. VCO] : It must not adjust without signal

- (1) **[1]** key  
Select 1.IF.
- (2) Check the arrow position between the ABOVE REF. and BELOW REF.
- (3) **[INFORMATION]** key  
Return to the SERVICE MODE main manu screen.

##### ■ 2.V/C, 4.DEF and 5.VSM PRESET

- (1) **[2], [4] and [5]**key  
Select one from 2.V/C, 4.DEF, 5.VSM PRESET.
- (2) **[FUNCTION ▲/▼]** key  
Select setting items.
- (3) **[FUNCTION ◀/▶]** key  
Set the setting values of the setting items.
- (4) **[MENU]** key  
Memorize the setting value.  
(Before storing the setting values in memory, do not press the CH, TV, POWER ON / OFF key. if you do, the values will not be stored in memory.)
- (5) **[INFORMATION]** key  
Return to the SERVICE MODE main manu screen.

##### ■ 3.AUDIO, 6.STATUS and 7.SHIPPING (OFF)

It is not requirement to adjustment.

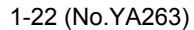
#### 4.7.2.4 MEMORIZE THE ADJUSTMENT DATA

When adjustment is completed, press the **[MENU]** key to memorize the adjustment value. If not to do it, adjustment data is not memorized to the memory IC. And if exit the adjustment mode before memorize the data, the adjustment value which you change is canceled.

#### 4.7.2.5 RELEASE OF SERVICE MODE

After completing the setting, return to the SERVICE MODE, then again press the **[INFORMATION]** key.

1-22 (No.YA263)



#### 4.8 INITIAL SETTING VALUE OF SERVICE MODE

- (1) Adjustment of the SERVICE MODE is made on the basis of the initial setting values. However, the new setting values which displays on the screen in its optimum condition may differ from the initial setting value.
- (2) Do not change the initial setting values of the items not listed in "ADJUSTMENT PROCEDURE".
- (3) "---" is impossible to adjust or not requirement to adjustment.

##### 4.8.1 [2. V/C]

Setting item	Variable range	Initial setting value			
		PAL	SECAM	NTSC 3.58	NTSC 4.43
1.RGB BLK	---	---	---	---	---
2.CUTOFF R	0000 - 0255	0100	0100	0100	0100
3.CUTOFF G	0000 - 0255	0132	0132	0132	0132
4.CUTOFF B	0000 - 0255	0124	0124	0124	0124
5.WDR R	0000 - 0255	0165	0165	0165	0165
6.WDR G	0000 - 0255	0135	0135	0135	0135
7.WDR B	0000 - 0255	0150	0150	0150	0150
8.BRIGHT	-128 - 0127	-030	-030	-030	-030
9.CONT.	0000 - 0063	0040	0040	0040	0040
10.COLOUR	0000 - 0063	0036	0031	0025	[0000]
11.HUE	-064 - 0063	---	---	0002	[0000]

NOTE: [ ] is fixed values.

Setting item	Variable range	Initial setting value							
		PAL		SECAM		NTSC 3.58		NTSC 4.43	
		TV	EXT	TV	EXT	TV	EXT	TV	EXT
12.SHARP	-015 - 0015	[-002]	[0000]	[-002]	[0000]	[-002]	[0000]	[-002]	[0000]

NOTE: [ ] is fixed values.

Setting item	Variable range	Initial setting value			
		PAL	SECAM	NTSC 3.58	NTSC 4.43
13.SC ADJ	0000 - 0063	0018	---	---	---

Setting item	Variable range	Initial setting value							
		PAL		SECAM		NTSC 3.58		NTSC 4.43	
		REGULAR	14:9 ZOOM	REGULAR	14:9 ZOOM	REGULAR	14:9 ZOOM	REGULAR	14:9 ZOOM
14.SIDE .P.L	0000 - 1295	346	296	346	296	351	301	351	301
15.SIDE .P.R	0000 - 1295	1084	1135	1084	1135	1195	1147	1195	1147

##### 4.8.2 [3. AUDIO] [Do not adjust]

Setting item	Variable range	Fixed value
1. ERROR LIMIT	0000H - 0FF0H	0010H
2. A2 ID THR	0000H - 00FFH	0019H
3. Q-PEAK	---	---
4. SOUND LEVEL	---	---

#### 4.8.3 [4. DEFLECTION] [28V MODEL]

Setting item	Variable range	Initial setting value					
		FULL		PANORAMIC		SUBTITLE	
		100Hz i	120Hz i	100Hz i	120Hz i	100Hz i	120Hz i
1. V-SHIFT	-032 - 0031	0	0	0	0	5	0
2. V-SIZE	-064 - 0063	-33	0	5	0	20	0
3. H-CENT	-128 - 0127	-14	0	0	0	0	0
4. H-SIZE	-128 - 0127	20	0	0	0	0	0
5. TRAPEZ	-064 - 0064	-5	0	0	0	5	0
6. EW-PIN	-128 - 0127	-40	0	0	0	0	0
7. COR-UP	-064 - 0064	0	0	0	0	0	0
8. COR-LO	-064 - 0064	0	0	0	0	5	0
9. COR-UP-S	-064 - 0064	0	0	0	0	0	0
10. COR-LO-S	-064 - 0064	0	0	0	0	0	0
11.ANGLE	-128 - 0127	0	0	0	0	0	0
12.BOW	-128 - 0127	0	0	0	0	0	0
13.V-S.CR	-064 - 0063	5	0	[5]	[0]	[8]	[0]
14.V-LIN	-064 - 0063	0	0	[-3]	[0]	[-8]	[0]

NOTE: [ ] is fixed values.

#### 4.8.4 [4. DEFLECTION] [32V MODEL]

Setting item	Variable range	Initial setting value					
		FULL		PANORAMIC		SUBTITLE	
		100Hz i	120Hz i	100Hz i	120Hz i	100Hz i	120Hz i
1. V-SHIFT	-032 - 0031	0	0	0	0	5	0
2. V-SIZE	-064 - 0063	40	0	5	0	20	0
3. H-CENT	-128 - 0127	-14	0	0	0	0	0
4. H-SIZE	-128 - 0127	14	0	0	0	0	0
5. TRAPEZ	-064 - 0064	-5	0	0	0	5	0
6. EW-PIN	-128 - 0127	-35	0	0	0	0	0
7. COR-UP	-064 - 0064	0	0	0	0	0	0
8. COR-LO	-064 - 0064	0	0	0	0	5	0
9. COR-UP-S	-064 - 0064	0	0	0	0	0	0
10. COR-LO-S	-064 - 0064	0	0	0	0	0	0
11.ANGLE	-128 - 0127	0	0	0	0	0	0
12.BOW	-128 - 0127	0	0	0	0	0	0
13.V-S.CR	-064 - 0063	3	0	[5]	[0]	[8]	[0]
14.V-LIN	-064 - 0063	0	0	[0]	[0]	[-8]	[0]

NOTE: [ ] is fixed values.

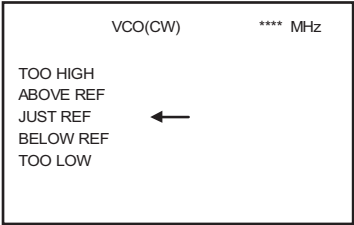


#### 4.8.5 [5. VSM PRESET]

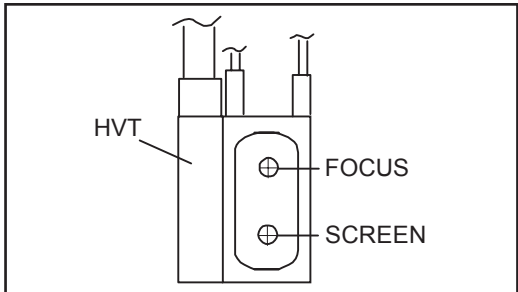
Item	Variable range	Setting value					
		PICTURE MODE			COLOUR TEMP.		
		BRIGHT	STANDARD	SOFT	COOL	NORMAL	WARM
1.BRIGHT	-16 - +16	0	0	0	---	---	---
2.CONT	-16 - +16	+7	0	-3	---	---	---
3.COLOUR	-16 - +16	0	0	0	---	---	---
4.SHARP	-16 - +16	0	0	-2	---	---	---
5.HUE	-16 - +16	0	0	0	---	---	---
1.WDR R	-64 - +63	---	---	---	-15	0	+4
2.WDR G	-64 - +63	---	---	---	-9	0	0
3.WDR B	-64 - +63	---	---	---	0	0	0

## 4.9 ADJUSTMENT PROCEDURE

### 4.9.1 CHECK ITEM

Item	Measuring instrument	Test point	Adjustment part	Description
<b>B1 VOLTAGE</b>	DC voltmeter  Remote control unit	X connector 1-pin:TP-91(B1) 5-pin:TP-E <b>[POWER &amp; DEF PWB]</b>	[2.V/C] 1.RGB BLK	(1) Receive the any broadcast. (2) Select <b>2. V/C</b> from the SERVICE MODE. (3) Select <b>&lt; 1. RGB BLK &gt;</b> . (4) Press the <b>[FUNCTION ▶]</b> key to find the cut off screen (Black screen). (5) Connect a DC voltmeter to <b>1-pin</b> and <b>5-pin</b> of X connector. (6) Make sure that the voltage is <b>DC139V ± 2.0V</b> . (7) Press the <b>[FUNCTION ◀]</b> key to return to SERVICE MODE.
<b>HIGH VOLTAGE</b>	HV voltmeter  Remote control unit	CRT anode  Chassis GND	[2.V/C] 1.RGB BLK	(1) Receive the any broadcast. (2) Select <b>2. V/C</b> from the SERVICE MODE. (3) Select <b>&lt; 1. RGB BLK &gt;</b> . (4) Press the <b>[FUNCTION ▶]</b> key to find the cut off screen (Black screen). (5) Connect the HV voltmeter to CRT ANODE and chassis GND. (Ground side is connected previously) (6) Make sure that the voltage is <b>DC 31.0kV (+1kV/-1.5kV)</b> . (7) Press the <b>[FUNCTION ◀]</b> key to return to SERVICE MODE.  <b>NOTE:</b> Remove the probe before removing the earth clip.
<b>IF VCO</b>	Remote control unit		[1.IF] 1.VCO	• Under normal conditions, no adjustment is required. • It must not adjust without broadcast signal. (1) Receive the any broadcast. (2) Select <b>1.IF</b> from the SERVICE MODE. (3) Check the "←" position between the ABOVE REF. and BELOW REF.
				

### 4.9.2 FOCUS

Item	Measuring instrument	Test point	Adjustment part	Description
<b>FOCUS</b>	Signal generator		FOCUS VR <b>[In HVT]</b>	(1) Receive the crosshatch signal. (2) Set the ZOOM mode to FULL. (3) While looking at the screen, adjust the FOCUS VR to the vertical and horizontal lines will be clear and infine detail. (4) Make sure that the picture is in focus even when the screen gets darkened.  

### 4.9.3 DEFLECTION CIRCUIT

There are 3 aspect modes ( 1.**FULL**, 2.**PANORAMIC**, 3.**SUBTITLE**) of the adjustment.

Depending upon the kind of signals ( Vertical frequency 100Hz i / 120Hz i).

100Hz i is a signal that is output to a screen when a 50Hz signal is input to a television set. It is an interlace-scanned picture of 100Hz.

120Hz i is a signal that is output to a screen when a 60Hz signal is input to a television set. It is an interlace-scanned picture of 120Hz.

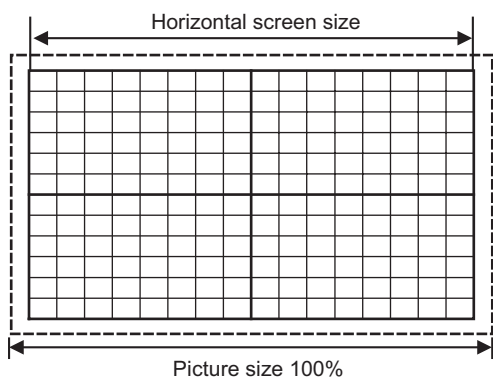
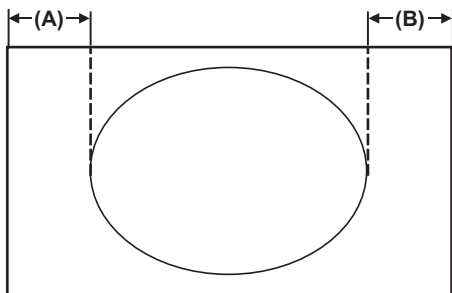
- When the 100Hz FULL mode has been established, the setting of other modes will be done automatically. However, if the picture quality has not been optimized, adjust each mode again, respectively.
- The adjustment using the remote control unit is made on the basis of the initial setting values.
- The setting values which adjust the screen to the optimum condition can be different from the initial setting values.
- To switch aspect modes, use the [ZOOM] key of the remote controller.

#### NOTE :

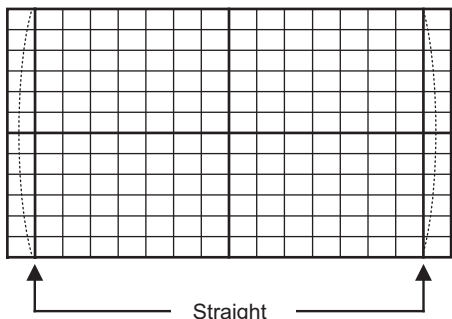
- Do not adjust PANORAMIC & SUBTITLE mode.
- At first the adjustment in 100Hz FULL mode should be done, then the data for the other aspect mode is corrected in the respective value at the same time. And confirm the deflection adjustment initial setting value in 60Hz (NTSC EXT mode) FULL mode. If the adjustment in 100Hz each aspect mode has been done and stored, the data for the same aspect modes in 60Hz is corrected in the respective value. Only the data for the other aspect mode in 60Hz is corrected for itself.

Item	Measuring instrument	Test point	Adjustment part	Description												
V. POSITION	Signal generator		[4.DEF] 1.V- SHIFT	<div>(1) Receive the circle pattern signal of vertical frequency 50Hz (PAL).</div> <div>(2) Set the ZOOM mode to FULL.</div> <div>(3) Select <b>4.DEF</b> from the SERVICE MODE.</div> <div>(4) Set the initial setting value of &lt; <b>1.V-SHIFT</b> &gt;.</div> <div>(5) Adjust vertical position to make <b>A = B</b>.</div> <div>(6) Check the adjustment value above in other zoom mode. If it is a wrong adjustment, readjust in FULL mode and adjust by &lt; <b>1.V-SHIFT</b> &gt;.</div> <div>(7) Press the <b>[MENU]</b> key to memorize the set value.</div>												
	Remote control unit															
V. SIZE	Signal generator		[4.DEF] 2.V-SIZE	<div>(1) Receive the cross hatch signal.</div> <div>(2) Set the ZOOM mode to FULL.</div> <div>(3) Select <b>4.DEF</b> from the SERVICE MODE.</div> <div>(4) Set the initial setting value of &lt; <b>2.V-SIZE</b> &gt;.</div> <div>(5) Adjust to make sure that the vertical screen size of the picture size is in the bellow table.</div> <div>(6) Make sure that the vertical screen size of the each ASPECT mode is in the below table.</div> <div>(7) Press the <b>[MENU]</b> key to memorize the set value.</div> <div>(8) Input a NTSC VIDEO signal (60Hz) from the EXT terminal, and make sure that the vertical screen size is in the table below.</div>												
	Remote control unit															
<div><div>Vertical screen size</div><div></div><div>Picture size 100%</div></div>																
<table><tr><th>ASPECT MODE</th><th>FULL</th><th>PANORAMIC</th><th>SUBTITLE</th></tr><tr><td>SCREEN TOP</td><td>93%</td><td>87%</td><td>70%</td></tr><tr><td>SCREEN BOTTOM</td><td>93%</td><td>87%</td><td>83%</td></tr></table>					ASPECT MODE	FULL	PANORAMIC	SUBTITLE	SCREEN TOP	93%	87%	70%	SCREEN BOTTOM	93%	87%	83%
ASPECT MODE	FULL	PANORAMIC	SUBTITLE													
SCREEN TOP	93%	87%	70%													
SCREEN BOTTOM	93%	87%	83%													

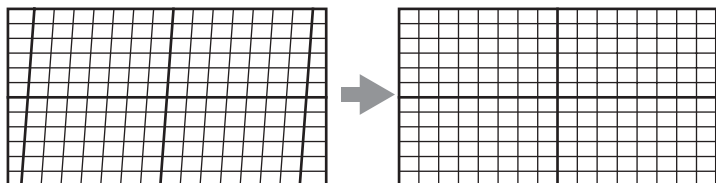
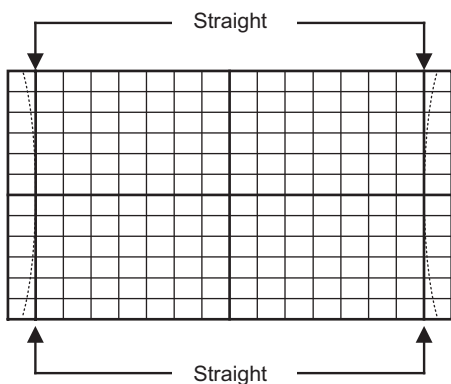
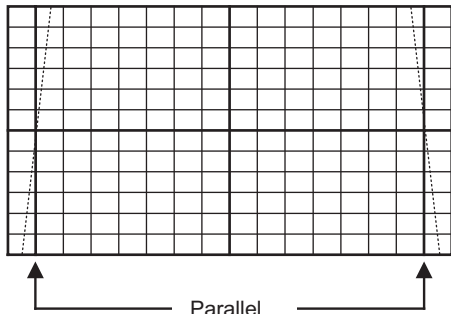
Item	Measuring instrument	Test point	Adjustment part	Description
H. POSITION	Signal generator		[4.DEF] 3.H-CENT	(1) Receive the circle pattern signal. (2) Set the ZOOM mode to FULL. (3) Select <b>4.DEF</b> from the SERVICE MODE. (4) Set the initial setting value of <b>&lt; 3.H-CENT &gt;</b> . (5) Adjust horizontal position to make <b>A=B</b> . (6) Press the <b>[MENU]</b> key to memorize the set value.
	Remote control unit			
H. SIZE	Signal generator		[4.DEF] 4.H-SIZE	(1) Receive the cross hatch signal. (2) Set the ZOOM mode to FULL. (3) Select <b>4.DEF</b> from the SERVICE MODE. (4) Set the initial setting value of <b>&lt; 4.H-SIZE &gt;</b> . (5) Adjust to make sure that the horizontal screen size of the picture size is in the bellow table. (6) Make sure that the horizontal screen size of the each ASPECT mode is in the below table. (7) Press the <b>[MENU]</b> key to memorize the set value. (8) Input a NTSC VIDEO signal (60Hz) from the EXT terminal, and make sure that the horizontal screen size is in the table below.
	Remote control unit			
SIDE-PIN	Signal generator		[4.DEF] 6.EW-PIN	(1) Receive the cross hatch signal. (2) Set the ZOOM mode to FULL. (3) Select <b>4.DEF</b> from the SERVICE MODE. (4) Set the initial setting value of <b>&lt; 6.EW-PIN &gt;</b> . (5) Adjust to make the vertical lines at the right and left edges of the screen straight. Also make sure that the 3rd vertical lines are straight. (6) Press the <b>[MENU]</b> key to memorize the set value.
	Remote control unit			

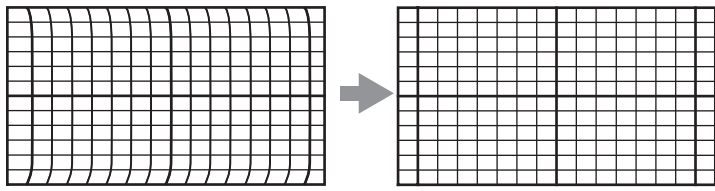
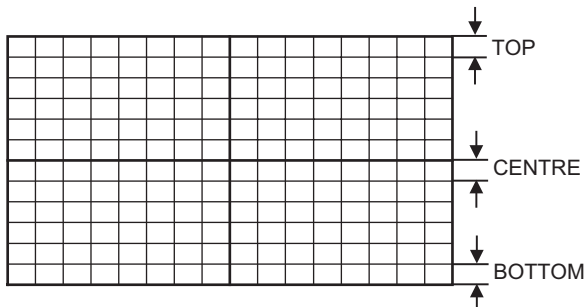


ASPECT MODE	FULL	PANORAMIC	SUBTITLE
SCREEN SIZE	92%	95%	92%



Item	Measuring instrument	Test point	Adjustment part	Description
<b>TRAPEZIUM</b>	Signal generator		[4.DEF] 5.TRAPEZ	(1) Receive the cross hatch signal. (2) Set the ZOOM mode to FULL. (3) Select <b>4.DEF</b> from the SERVICE MODE. (4) Set the initial setting value of <b>&lt; 5.TRAPEZ &gt;</b> . (5) Adjust to bring the vertical lines at the right and left edges of the screen parallel. (6) Press the <b>[MENU]</b> key to memorize the set value.
	Remote control unit			
<b>CORNER</b>	Signal generator		[4.DEF] 7.COR-UP 8.COR-LO 9.COR-US-S 10.COR-LO-S	(1) Receive the cross hatch signal. (2) Set the ZOOM mode to FULL. (3) Select <b>4.DEF</b> from the SERVICE MODE. (4) Set the initial setting value of <b>&lt; 7.COR-UP &gt;</b> . (5) Adjust to bring the straight line at the upper corner. (6) Set the initial setting value of <b>&lt; 8.COR-LO &gt;</b> . (7) Adjust to bring the straight line at the lower corner. (8) Press the <b>[MENU]</b> key to memorize the set value. (9) If the extreame upper & lower corners are a little pin or barrel chose <b>&lt; 9.COR-UP-S &gt;</b> or <b>&lt; 10. COR-LO-S &gt;</b> and adjust. (10) Press the <b>[MENU]</b> key to memorize the set value.
	Remote control unit			
<b>ANGLE</b>	Signal generator		[4.DEF] 11. ANGLE	• In case where there is a parallelogrammical distortion of images on the screen. (1) Receive the cross hatch signal. (2) Set the ZOOM mode to FULL. (3) Select <b>4.DEF</b> from the SERVICE MODE. (4) Set the initial setting value of <b>&lt; 11. ANGLE &gt;</b> . (5) Adjust to bring the vertical lines straight. (6) Press the <b>[MENU]</b> key to memorize the set value.
	Remote control unit			

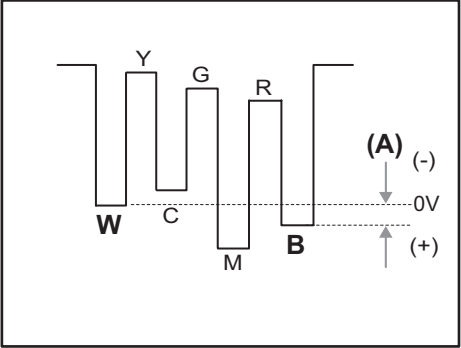


Item	Measuring instrument	Test point	Adjustment part	Description
<b>BOW</b>	Signal generator  Remote control unit		[4.DEF] 12.BOW	<ul style="list-style-type: none"> <li>In case where there is a bow-shaped distortion of images on the screen.               <ol style="list-style-type: none"> <li>(1) Receive the cross hatch signal.</li> <li>(2) Set the ZOOM mode to FULL.</li> <li>(3) Select <b>4.DEF</b> from the SERVICE MODE.</li> <li>(4) Set the initial setting value of <b>&lt; 12. BOW &gt;</b>.</li> <li>(5) Adjust to bring the vertical lines straight.</li> <li>(6) Press the <b>[MENU]</b> key to memorize the set value.</li> </ol> </li> </ul>
				
<b>V. S-SHAPE CORRECTION &amp; V. LINEARITY</b>	Signal generator  Remote control unit		[4.DEF] 13.V-S.CR 14.V-LIN	<ul style="list-style-type: none"> <li>When the vertical linearity has been deteriorated remarkably, perform the following steps.               <ol style="list-style-type: none"> <li>(1) Receive the cross hatch signal.</li> <li>(2) Set the ZOOM mode to FULL.</li> <li>(3) Select <b>4.DEF</b> from the SERVICE MODE.</li> <li>(4) Set the initial setting value of <b>&lt; 13.V-S.CR &gt;</b>.</li> <li>(5) Set the initial setting value of <b>&lt; 14.V-LIN &gt;</b>.</li> <li>(6) Adjust <b>&lt; 13.V-S.CR &gt;</b> and <b>&lt; 14.V-LIN &gt;</b> so that the spaces of each line on top, centre and bottom become uniform.</li> <li>(7) Press the <b>[MENU]</b> key to memorize the set value.</li> </ol> </li> </ul>
				

#### 4.9.4 VIDEO CIRCUIT

Item	Measuring instrument	Test point	Adjustment part	Description
<b>WHITE BALANCE</b>	Signal generator  Remote control unit		[2. V/C] 2.CUTOFF R 3.CUTOFF G 4.CUTOFF B 5.WDR R 6.WDR G	(1) Receive a black and white signal (colour off). (2) Set the ZOOM mode to FULL. (3) Set the PICTURE MODE to STANDARD. (4) Set the COLOUR TEMP to NORMAL. (5) Select <b>2.V/C</b> from the SERVICE MODE. (6) Each select <b>2.CUTOFF R</b> , <b>3.CUTOFF G</b> , <b>4.CUTOFF B</b> and adjust the screen until the black portion in the screen becomes black. (7) Each select <b>5.WDR R</b> , <b>6.WDR G</b> and adjust the screen until the white portion in the screen becomes white. <b>NOTE:</b> Do not adjust 7. WDR B (8) Press the <b>[MENU]</b> key to memorize the set value. (9) Change the contrast and brightness from low-light to high-light and check that the tracking of the white balance is good.
<div style="text-align: center;"> <b>REMOTE CONTROL UNIT KEY</b> </div>				
<b>SUB BRIGHT</b>	Remote control unit		[2. V/C] 8. BRIGHT	(1) Receive the any broadcast. (2) Set the ZOOM mode to FULL. (3) Set the PICTURE mode to STANDARD. (4) Select <b>2.V/C</b> from the SERVICE MODE. (5) Set the initial setting value of <b>&lt; 8.BRIGHT &gt;</b> . (6) If the brightness is not the best with the initial setting value, make fine adjustment until you get the best brightness. (7) Press the <b>[MENU]</b> key to memorize the set value.
<b>SUB CONTRAST</b>	Remote control unit		[2. V/C] 9. CONT.	(1) Receive the any broadcast. (2) Set the ZOOM mode to FULL. (3) Set the PICTURE mode to STANDARD. (4) Select <b>2.V/C</b> from the SERVICE MODE. (5) Set the initial setting value of <b>&lt; 9.CONTR. &gt;</b> . (6) If the contrast is not the best with the initial setting value, make fine adjustment until you get the best contrast. (7) Press the <b>[MENU]</b> key to memorize the set value.

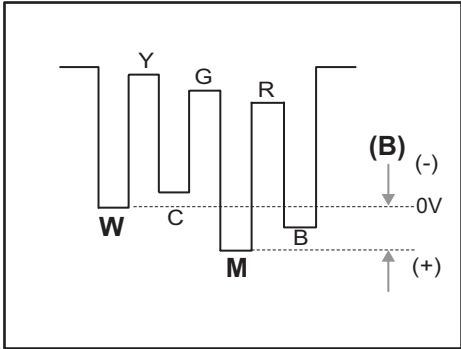
Item	Measuring instrument	Test point	Adjustment part	Description
SUB COLOUR	Signal generator  Remote control unit		[2.V/C] 10.COLOUR	<b>Method of adjustment without measuring instrument</b> <b>PAL COLOUR</b> (1) Receive PAL broadcast. (2) Set the ZOOM mode to FULL. (3) Set the PICTURE mode to STANDARD. (4) Select <b>2.V/C</b> from the SERVICE MODE. (5) Set the initial setting value of <b>&lt; 10.COLOUR &gt;</b> . (6) If the colour is not the best with the initial set value, make fine adjustment until you get the best colour. (7) Press the <b>[MENU]</b> key to memorize the set value.  <b>SECAM COLOUR [Except AV-28H5SK, AV28H5SR, AV-32H5SK, AV-32H5SR]</b> (1) Receive the SECAM broadcast. (2) Follow the same step 2 to 7 as in PAL COLOUR.  <b>NTSC 3.58 COLOUR</b> (1) Input the NTSC 3.58MHz signal from the EXT terminal. (2) Follow the same step 2 to 7 as in PAL COLOUR.  <b>NTSC 4.43 COLOUR</b> (1) When NTSC 3.58 COLOUR set, NTSC 4.43 COLOUR will automatically set.
	Signal generator  Oscilloscope  Remote control unit	TP-47B TP-E <b>[CRT SOCKET PWB]</b>	[2.V/C] 10.COLOUR	<b>Method of adjustment using measuring instrument</b> <b>PAL COLOUR</b> (1) Receive the PAL full field colour bar signal (75% white). (2) Set the ZOOM mode to FULL. (3) Set the PICTURE mode to STANDARD. (4) Select <b>2.V/C</b> from the SERVICE MODE. (5) Set the initial setting value of <b>&lt;10.COLOUR &gt;</b> . (6) Connect the oscilloscope between TP-47B and TP-E. (7) Adjust <b>&lt; 10. COLOUR &gt;</b> and bring the value of <b>(A)</b> in the illustration into the value shown in the table. (8) Press the <b>[MENU]</b> key to memorize the set value.  <b>SECAM COLOUR [Except AV-28H5SK, AV28H5SR, AV-32H5SK, AV-32H5SR]</b> (1) Receive the SECAM colour bar signal (75% white). (2) Follow the same step 2 to 8 as in PAL COLOUR.  <b>NTSC 3.58 COLOUR</b> (1) Input the NTSC 3.58MHz signal (full field colour bar with 75% white) from the EXT terminal. (2) Follow the same step 2 to 8 as in PAL COLOUR.  <b>NTSC 4.43 COLOUR</b> (1) When NTSC 3.58 COLOUR set, NTSC 4.43 COLOUR will automatically set.



Setting item	Adjustment value			
	PAL		SECAM	NTSC
	AV-28H5SK AV-32H5SK	others		
<b>VOLTAGE (W-B)</b>	+3V	+11V	+7V	+7V



Item	Measuring instrument	Test point	Adjustment part	Description
SUB HUE	Signal generator  Remote control unit		[2.V/C] 11.HUE	<b>Method of adjustment without measuring instrument</b> <b>NTSC 3.58 HUE</b> (1) Input the NTSC 3.58MHz COMPOSITE VIDEO signal (full field colour bar with 75% white) from the EXT terminal. (2) Set the ZOOM mode to FULL. (3) Set the PICTURE mode to STANDARD. (4) Select <b>2.V/C</b> from the SERVICE MODE. (5) Set the initial setting value of <b>&lt; 11. HUE &gt;</b> . (6) If you cannot get the best hue with the initial setting value, make fine adjustment until you get the best hue. (7) Press the <b>[MENU]</b> key to memorize the set value.  <b>NTSC 4.43 HUE</b> (1) When NTSC 3.58 HUE is set, NTSC 4.43 HUE will be automatically set at the respective values.
	Signal generator  Oscilloscope  Remote control unit	TP-47B TP-E <b>[CRT SOCKET PWB]</b>	[2.V/C] 11.HUE	<b>Method of adjustment using measuring instrument</b> <b>NTSC 3.58 HUE</b> (1) Input the NTSC 3.58MHz signal (full field colour bar with 75% white) from the EXT terminal. (2) Set the ZOOM mode to FULL. (3) Set the PICTURE mode to STANDARD. (4) Select <b>2.V/C</b> from the SERVICE MODE. (5) Set the initial setting value of <b>&lt; 11. HUE &gt;</b> . (6) Connect the oscilloscope between TP-47B and TP-E. (7) Adjust <b>&lt; 11. HUE &gt;</b> and bring the value of <b>(B)</b> in the illustration into the value shown in the table. (8) Press the <b>[MENU]</b> key to memorize the set value.  <b>NTSC 4.43 HUE</b> (1) When NTSC 3.58 HUE set, NTSC 4.43 HUE will automatically set.



Setting item	Adjustment value
VOLTAGE (W-M)	-7V

#### 4.9.5 VSM PRESET SETTING

Item	Measuring instrument	Test point	Adjustment part	Description
<b>VSM PRESET</b>	Remote control unit		[5. VSM PRESET] 1. BRIGHT 2. CONT 3. COLOUR 4. SHARP 5. HUE  1. WDR R 2. WDR G 3. WDR B	(1) Select <b>5. VSM PRESET</b> from the SERVICE MODE. (2) Set the PICTURE MODE to BRIGHT. (3) Select < <b>1.BRIGHT</b> >. (4) Set the initial setting value of PICTURE MODE, as shown in the below table. (5) Press the <b>[MENU]</b> key to memorize the set value. (6) Select < <b>2.CONT</b> > to < <b>5.HUE</b> > in turn, and set the values. (7) Respectively select the "SOFT" and "STANDARD". Make similar adjustment as same step as above. (8) Set the COLOUR TEMP to COOL. (9) Select < <b>1.WDR R</b> >. (10) Set the initial setting value of COLOUR TEMP., as shown in the below table. (11) Press the <b>[MENU]</b> key to memorize the set value. (12) Select < <b>2.WDR G</b> > and < <b>3.WDR B</b> > in turn, and set values. (13) Respectively select the "WARM" and "NORMAL". Make similar adjustment as same step as above.

#### ■ VSM PRESET TABALE

Item	Variable range	Setting value					
		PICTURE MODE			COLOUR TEMP.		
		BRIGHT	STANDARD	SOFT	COOL	NORMAL	WARM
1.BRIGHT	-16 - +16	0	0	0	---	---	---
2.CONT	-16 - +16	+7	0	-3	---	---	---
3.COLOUR	-16 - +16	0	0	0	---	---	---
4.SHARP	-16 - +16	0	0	-2	---	---	---
5.HUE	-16 - +16	0	0	0	---	---	---
1.WDR R	-64 - +63	---	---	---	-15	0	+4
2.WDR G	-64 - +63	---	---	---	-9	0	0
3.WDR B	-64 - +63	---	---	---	0	0	0

## SECTION 5 TROUBLESHOOTING

### 5.1 SELF CHECK FUNCTIONS

#### 5.1.1 OUTLINE

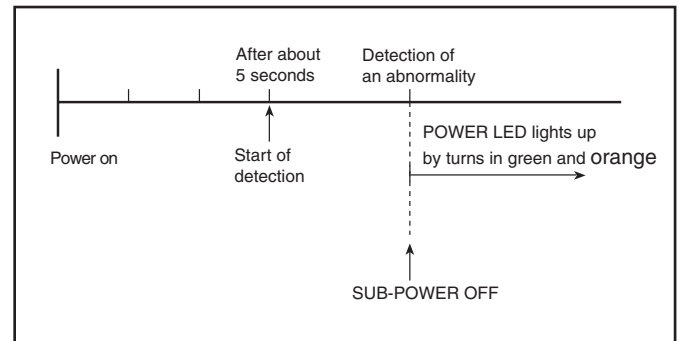
These models have self-check functions given below. When an abnormality has been detected, the SUB POWER is turned off and POWER LED lights up by turns in green and orange. An abnormality is detected by the signal input state of the control line connected to the microcomputer.

#### 5.1.2 SELF CHECK ITEMS

Check item	Details of detection	Method of detection	State of abnormality
Low B short protection	A short on the low B (12V, 9V, 5V, 3.3V, 2.5V) line is detected.	The protect port on the microcomputer (11pin) is always monitored at 150msec intervals. If an abnormality is detected nine time successively, it is judged that there is an abnormality.	When an abnormality has detected, the SUB POWER is turned off and POWER LED lights up by turns in green and orange. While the SUB POWER is being turned off, the POWER key on the remote control unit is not operational until the power cord is taken out and put in again.
CRT neck broken protection	Operation of CRT neck broken protection circuit. (Vertical amplitude is detected.)	DITTO	DITTO

#### 5.1.3 SELF CHECK INDICATING FUNCTION

When an abnormality has been detected at about 5 seconds after the power is turned on, the SUB POWER is turned off immediately and the POWER LED lights up by turns in green and orange.





Victor Company of Japan, Limited  
AV & MULTIMEDIA COMPANY DISPLAY CATEGORY 12, 3-chome, Moriya-cho, Kanagawa-ku, Yokohama-city, Kanagawa-prefecture, 221-8528, Japan

(No.YA263)



Printed in Japan  
VPT

# JVC

## SCHEMATIC DIAGRAMS

### COLOUR TELEVISION

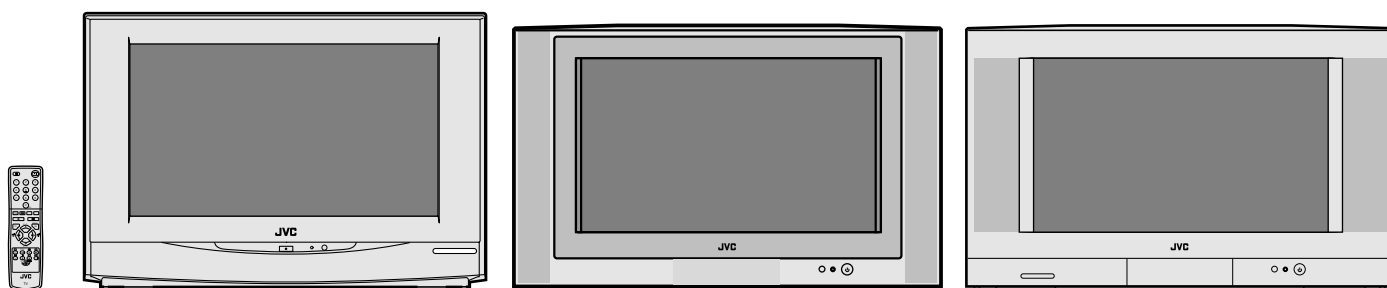
**AV-28H5BU, AV-28H5BL, AV-28H5SK,  
AV-28H5SL, AV28H5SR, AV-28H5SU,  
AV-28H50SU, AV-32H5BU, AV-32H5SK,  
AV-32H5SR, AV-32H5SU, AV-32H50SU,  
AV-32H57SU**

CD-ROM No.SML200504

BASIC CHASSIS

ML3

**T-V LINK**



**AV-28H5BU, AV-28H5BL  
AV-28H5SK, AV-28H5SL  
AV-28H5SR, AV-28H5SU  
AV-32H5BU, AV-32H5SK  
AV-32H5SR, AV-32H5SU**

**AV-28H50SU, AV-32H50SU**

**AV-32H57SU**

# AV-28H5BU, AV-28H5BL, AV-28H5SK, AV-28H5SL, AV28H5SR, AV-28H5SU, AV-28H50SU, AV-32H5BU, AV-32H5SK, AV-32H5SR, AV-32H5SU, AV-32H50SU, AV-32H57SU

## STANDARD CIRCUIT DIAGRAM

### NOTE ON USING CIRCUIT DIAGRAMS

#### 1.SAFETY

The components identified by the  $\triangle$  symbol and shading are critical for safety. For continued safety replace safety critical components only with manufactures recommended parts.

#### 2.SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

- (1)Input signal : Colour bar signal
- (2)Setting positions of each knob/button and variable resistor : Original setting position when shipped
- (3)Internal resistance of tester : DC 20k $\Omega$ /V
- (4)Oscilloscope sweeping time : H  $\Rightarrow$  20 $\mu$ s / div  
: V  $\Rightarrow$  5ms / div  
: Others  $\Rightarrow$  Sweeping time is specified
- (5)Voltage values : All DC voltage values

\* Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

#### 3.INDICATION OF PARTS SYMBOL [EXAMPLE]

- In the PW board : R209  $\rightarrow$  R209

#### 4.INDICATIONS ON THE CIRCUIT DIAGRAM

##### (1)Resistors

###### ● Resistance value

- No unit : [ $\Omega$ ]
- K : [k $\Omega$ ]
- M : [M $\Omega$ ]

###### ● Rated allowable power

- No indication : 1/16 [W]
- Others : As specified

###### ● Type

- No indication : Carbon resistor
- OMR : Oxide metal film resistor
- MFR : Metal film resistor
- MPR : Metal plate resistor
- UNFR : Uninflamable resistor
- FR : Fusible resistor

\* Composition resistor 1/2 [W] is specified as 1/2S or Comp.

##### (2)Capacitors

###### ● Capacitance value

- 1 or higher : [pF]
- less than 1 : [ $\mu$ F]

###### ● Withstand voltage

- No indication : DC50[V]
- Others : DC withstand voltage [V]
- AC indicated : AC withstand voltage [V]

\* Electrolytic Capacitors

47/50[Example]: Capacitance value [ $\mu$ F]/withstand voltage[V]

###### ●Type

- No indication : Ceramic capacitor
- MM : Metalized mylar capacitor
- PP : Polypropylene capacitor
- MPP : Metalized polypropylene capacitor
- MF : Metalized film capacitor
- TF : Thin film capacitor
- BP : Bipolar electrolytic capacitor
- TAN : Tantalum capacitor

##### (3)Coils

- No unit : [ $\mu$ H]
- Others : As specified

##### (4)Power Supply



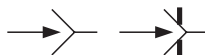
-  : B1
-  : B2 (12V)
-  : 9V
-  : 5V

\* Respective voltage values are indicated





##### (5)Test point

-  : Test point
-  : Only test point display



##### (6)Connecting method

-  : Connector
-  : Wrapping or soldering
-  : Receptacle

##### (7)Ground symbol

-  : LIVE side ground
-  : ISOLATED(NEUTRAL) side ground
-  : EARTH ground
-  : DIGITAL ground

### 5.NOTE FOR REPAIRING SERVICE

This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : () side GND and the ISOLATED(NEUTRAL) : () side GND. Therefore, care must be taken for the following points.

- (1)Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED(NEUTRAL) side GND simultaneously. if the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.
- (2)Do not short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or never measure with a measuring apparatus measure with a measuring apparatus ( oscilloscope, etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time. If the above precaution is not respected, a fuse or any parts will be broken.

◆ Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.

#### NOTE

◆ Due improvement in performance, some part numbers show in the circuit diagram may not agree with those indicated in the part list.

When ordering parts, please use the numbers that appear in the Parts List.

(No.YA263)2-1

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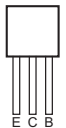
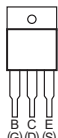
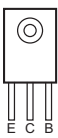
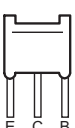
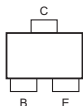
## USING P.W. BOARD

P.W.B ASS'Y name	AV-28H5BU	AV-28H5BL	AV-28H5SK	AV-28H5SL	AV-28H5SR	AV-28H5SU	AV-28H50SU
MAIN P.W.B BOARD	SML-1302A-U2	←	SML-1932A-U2	SML-1302A-U2	←	←	←
POWER & DEF P.W.B BOARD	SML-2302A-S2	←	←	←	SML-2302A-U2	SML-2302A-S2	←
CRT SOCKET P.W.B BOARD	SML-3302A-U2	←	←	←	←	←	←
SIDE CONTROL P.W.B BOARD	SML-8131A-U2	←	←	←	←	←	SML-8133A-U2
FRONT CONTROL P.W.B BOARD	SML-8301A-U2	←	←	←	←	←	SML-8302A-U2
AV JACK P.W.B BOARD	SML0J301A-U2	←	←	←	←	←	←
100HZ P.W.B BOARD	SML0Z301A-U2	←	←	←	←	←	←


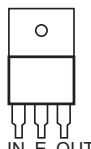
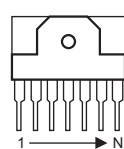
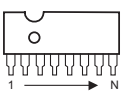
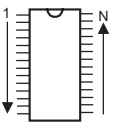
P.W.B ASS'Y name	AV-32H5BU	AV-32H5SK	AV-32H5SR	AV-32H5SU	AV-32H50SU	AV-32H57SU
MAIN P.W.B BOARD	SML-1301A-U2	SML-1931A-U2	SML-1301A-U2	←	←	←
POWER & DEF P.W.B BOARD	SML-2301A-S2	←	SML-2301A-U2	SML-2301A-S2	←	SML-2301A-U2
CRT SOCKET P.W.B BOARD	SML-3301A-U2	←	←	←	←	←
SIDE CONTROL P.W.B BOARD	SML-8131A-U2	←	←	←	SML-8133A-U2	←
FRONT CONTROL P.W.B BOARD	SML-8301A-U2	←	←	←	SML-8302A-U2	←
AV JACK P.W.B BOARD	SML0J301A-U2	←	←	←	←	←
100HZ P.W.B BOARD	SML0Z301A-U2	←	←	←	←	←

SEMICONDUCTOR SHAPES

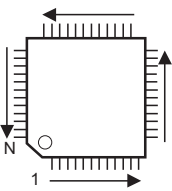
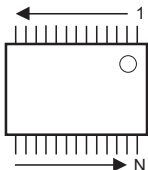
TRANSISTOR

BOTTOM VIEW	FRONT VIEW				TOP VIEW
					CHIP TR 

IC

BOTTOM VIEW	FRONT VIEW			TOP VIEW
				

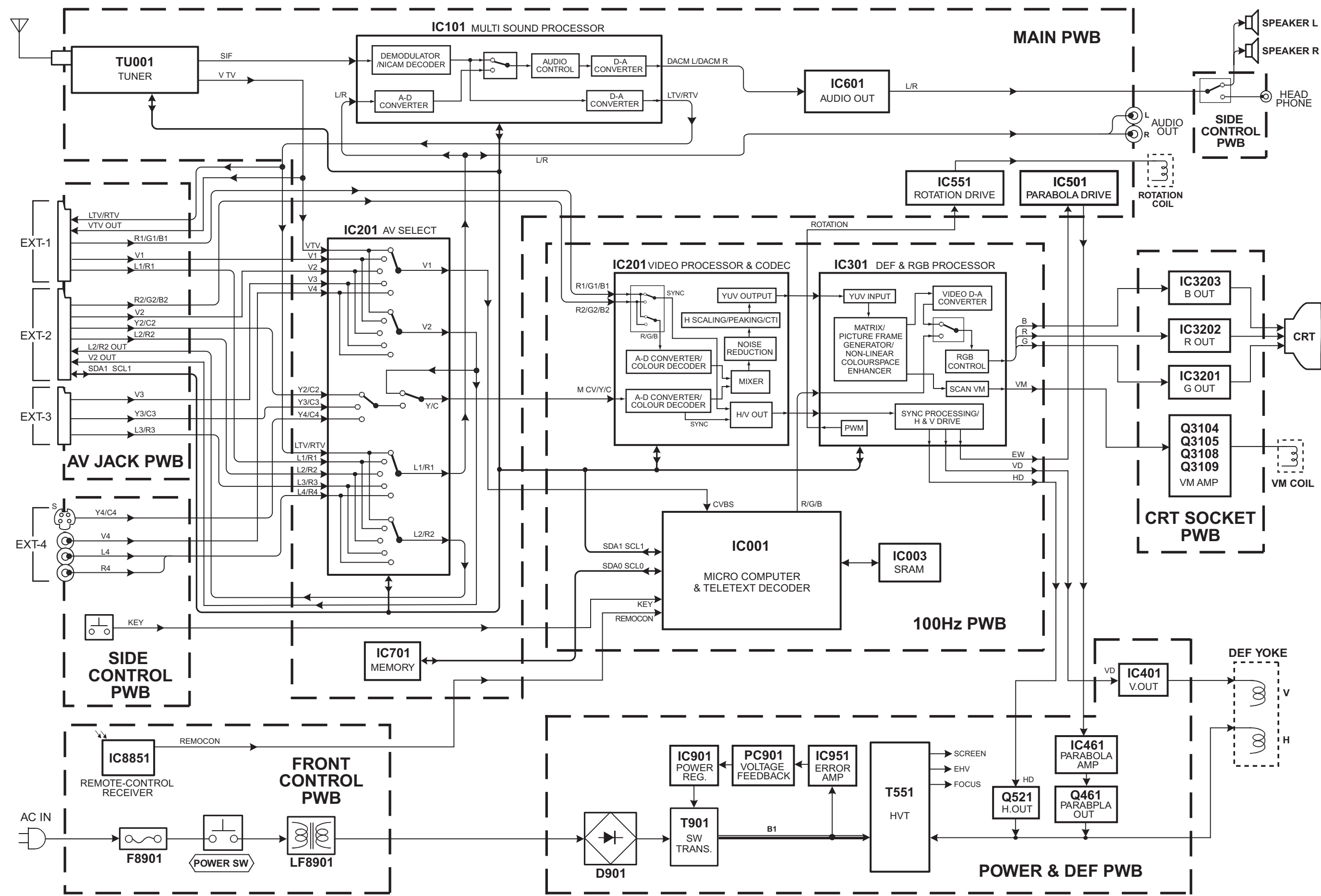
CHIP IC

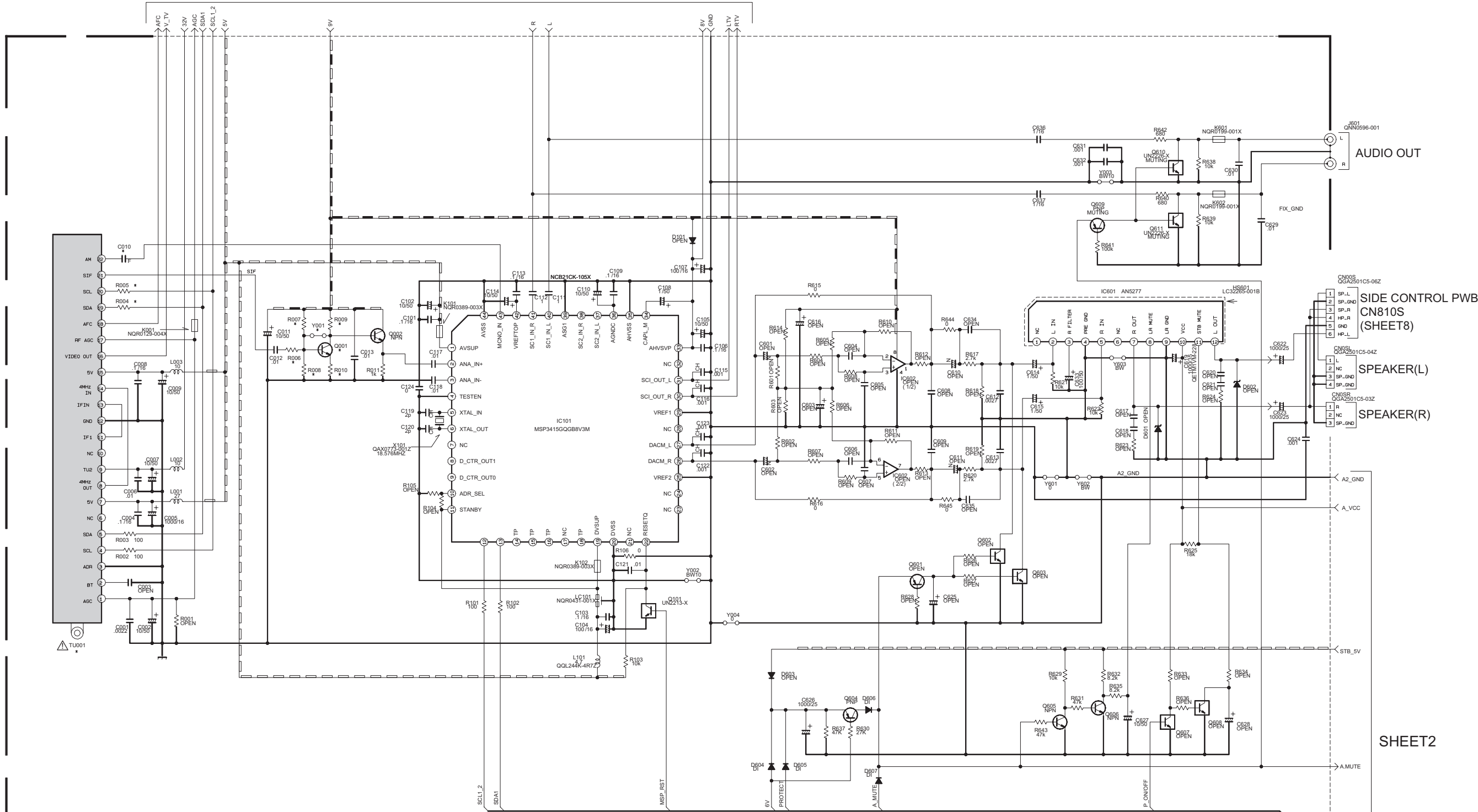
TOP VIEW		
		





BLOCK DIAGRAM





MAIN PWB ASS'Y (1/2)

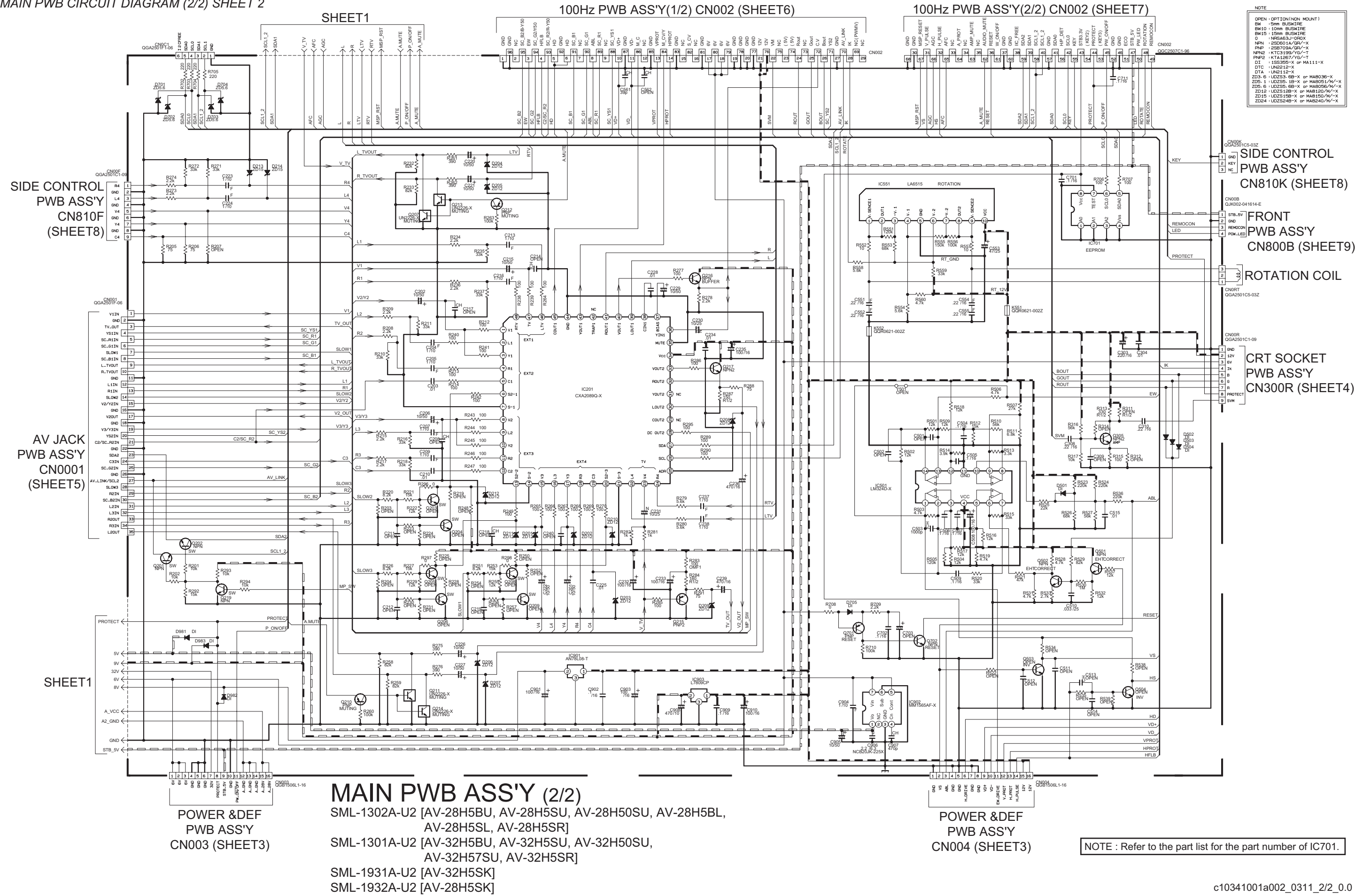
- SML-1302A-U2 [AV-28H5BU, AV-28H5SU, AV-28H50SU, AV-28H5BL, AV-28H5SL, AV-28H5SR]
- SML-1301A-U2 [AV-32H5BU, AV-32H5SU, AV-32H50SU, AV-32H57SU, AV-32H5SR]
- SML-1931A-U2 [AV-32H5SK]
- SML-1932A-U2 [AV-28H5SK]

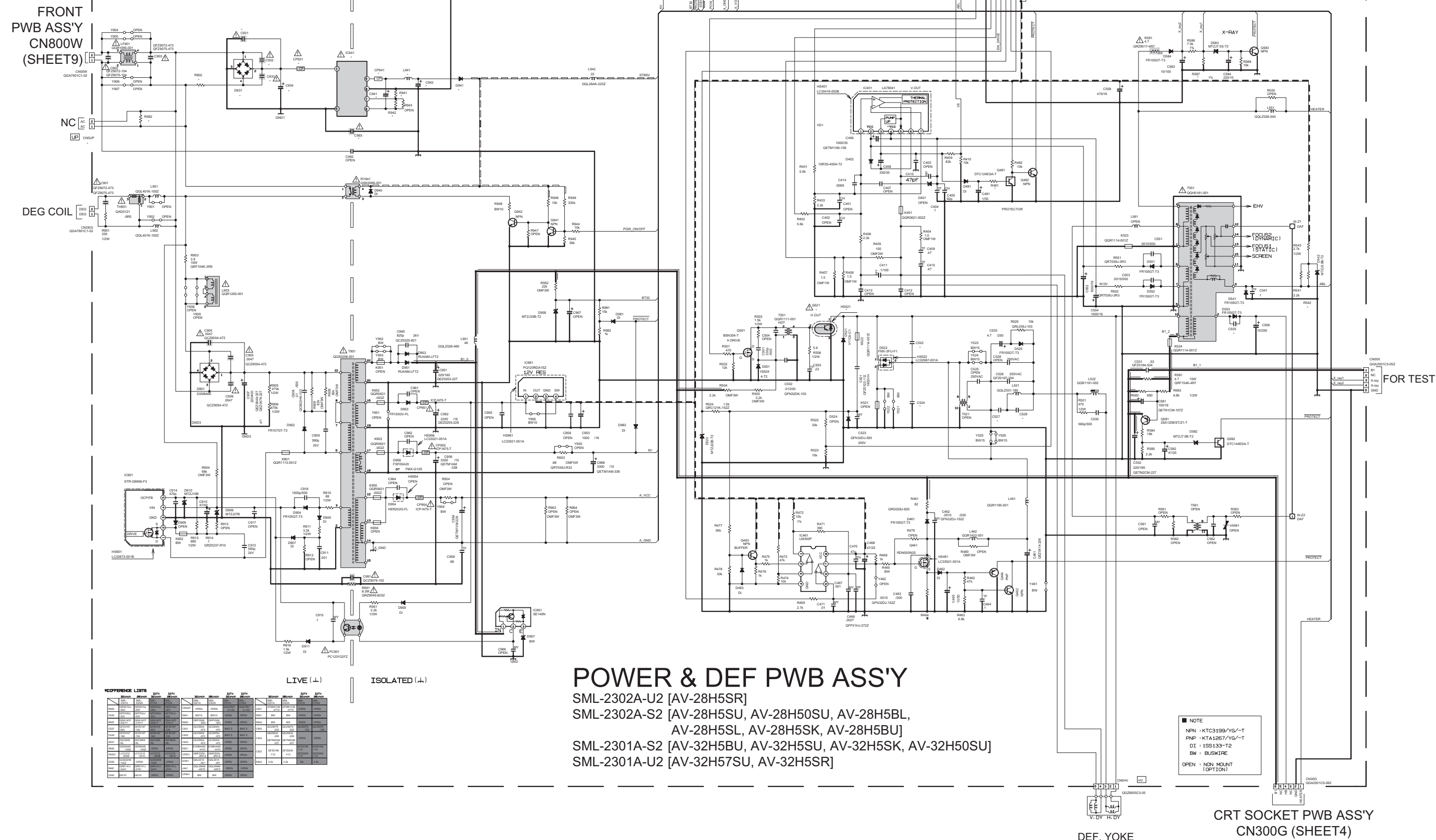
NOTE

O: NRS463J-OPOX  
NPN: 2SC3928A/QP/-X  
PNP: 2SA1530A/QP/-X  
DI: 1SS335-X or MA111-X  
\*1: NQR0199-004X  
\*2: MAB056/M/-X  
BWxx: IM-BW

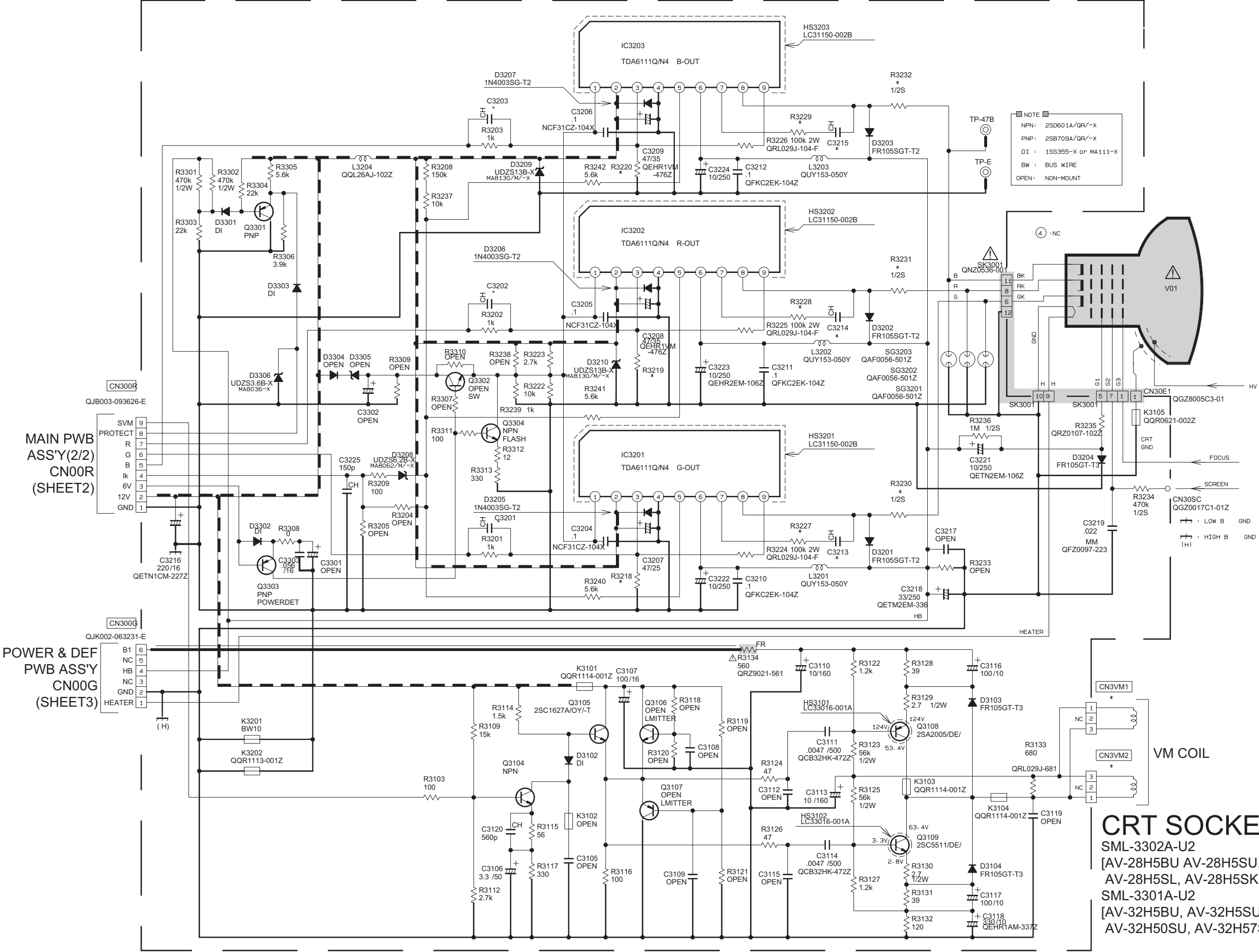
	SML-1301A	SML-1302A	SML-1931A	SML-1932A
TU001	QAU027	QAU027	QAU027	QAU027
Q001	NPN	NPN	OPEN	OPEN
Y001	OPEN	OPEN	0	0
R004	100	100	OPEN	OPEN
R005	100	100	OPEN	OPEN
R006	0	0	4.7k	4.7k
R007	2.2k	2.2k	10k	10k
R008	1k	1k	10k	10k
R009	680	680	OPEN	OPEN
R010	330	330	OPEN	OPEN
C010	1/10	1/10	OPEN	OPEN

- 6V
- A\_MUTE
- P\_ON/OFF
- PROTECT
- MSP\_RST
- SDA1
- SCL1\_2







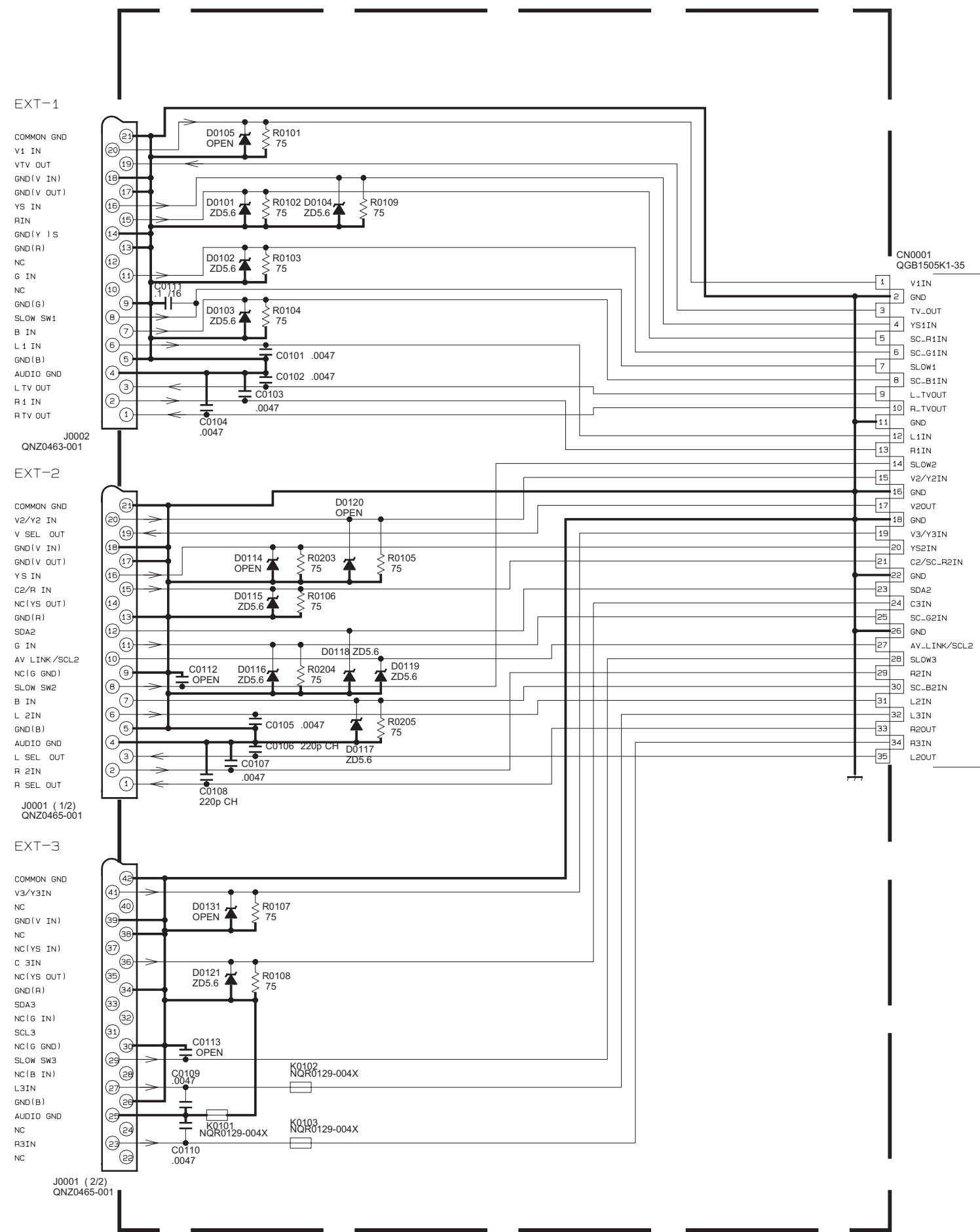


*DIFFERENCE PARTS LIST					
	SML-3301A	SML-3302A	SML-3303A	SML-3701A	SML-3702A
C3201	8p	8p	8p	12p	12p
C3202	8p	8p	8p	12p	12p
C3203	8p	8p	8p	12p	12p
CN3VM	OPEN	OPEN	WJK0167-001A-E	OPEN	OPEN
CN3VM2	OQA2501 C5-03Z	OQA2501 C5-03Z	OPEN	OQA2501 C5-03Z	OQA2501 C5-03Z
C3213	180p	180p	180p	680p	180p
C3214	180p	180p	180p	680p	180p
C3215	180p	180p	180p	680p	180p
R3218	2.7k	2.7k	2.7k	5.6k	2.7k
R3219	2.7k	2.7k	2.7k	5.6k	2.7k
R3220	2.7k	2.7k	2.7k	5.6k	2.7k
R3227	3.3k	3.3k	3.3k	0	3.3k
R3228	3.3k	3.3k	3.3k	0	3.3k
R3229	3.3k	3.3k	3.3k	0	3.3k
R3230	1.5k	1.5k	1.5k	1k	1.5k
R3231	1.5k	1.5k	1.5k	1k	1.5k
R3232	1.5k	1.5k	1.5k	1k	1.5k

V01(1TC) PICTURE TUBE			MODEL
32"	W76ERF112X044	AV-32X5SUA	AV-32X5BUA
28"	W66QDE993X996	AV-28X5SUA	AV-28X5BUA
		AV-28X5SLA	AV-28X5SKA
		AV-28X5SLA	AV-28X5SKA
		AV-28X5SLA	AV-28X5SKA
32"	W76QEN693X100	AV-32X5SUA	AV-32X5BUA
		AV-32X5SLA	AV-32X5SKA
		AV-32X5SLA	AV-32X5SKA

# CRT SOCKET PWB ASS'Y

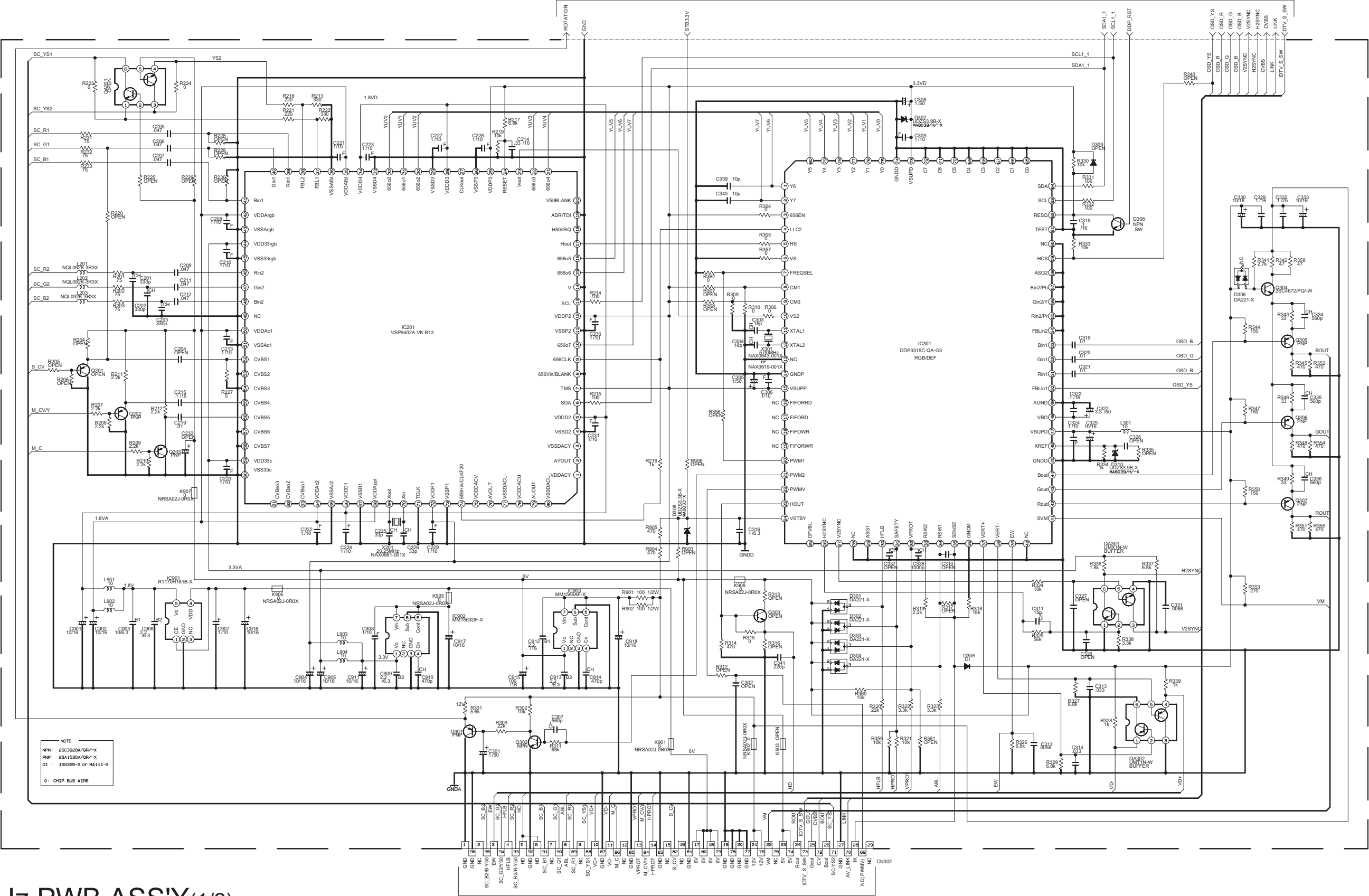
SML-3302A-U2  
[AV-28H5BU AV-28H5SU, AV-28H50SU, AV-28H5BL, AV-28H5SL, AV-28H5SK, AV-28H5SR]  
SML-3301A-U2  
[AV-32H5BU, AV-32H5SU, AV-32H5SK, AV-32H50SU, AV-32H57SU, AV-32H5SR]



NOTE

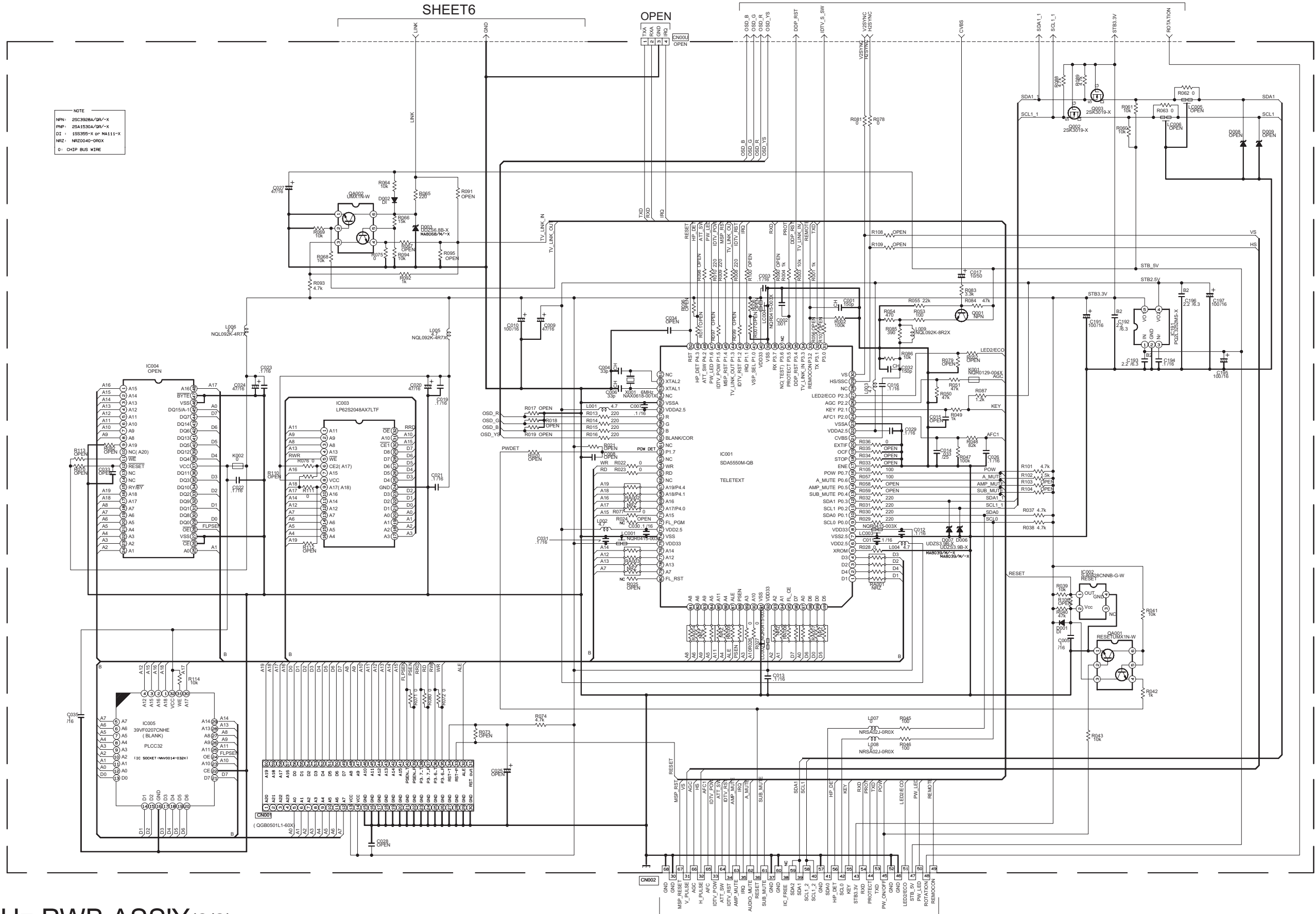
OPEN :OPTION(NON MOUNT)  
BW :5mm IM-BW(QUY153-050Y)  
0 :NRSA63J-0R0X  
ZD5.6 :UDZ55.6B-X or MA8056/M/-X

AV JACK PWB ASS'Y  
SML0J301A-U2

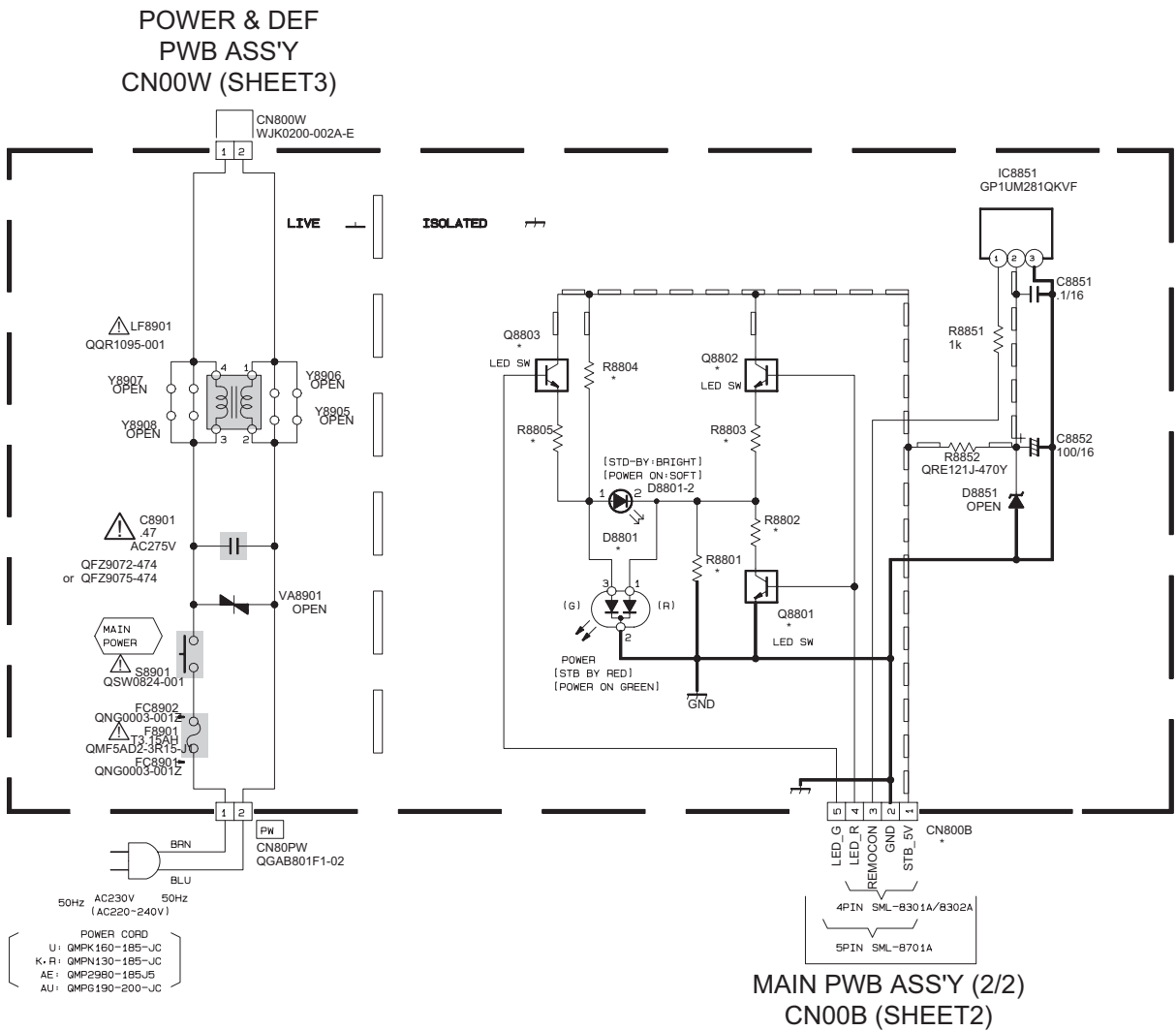
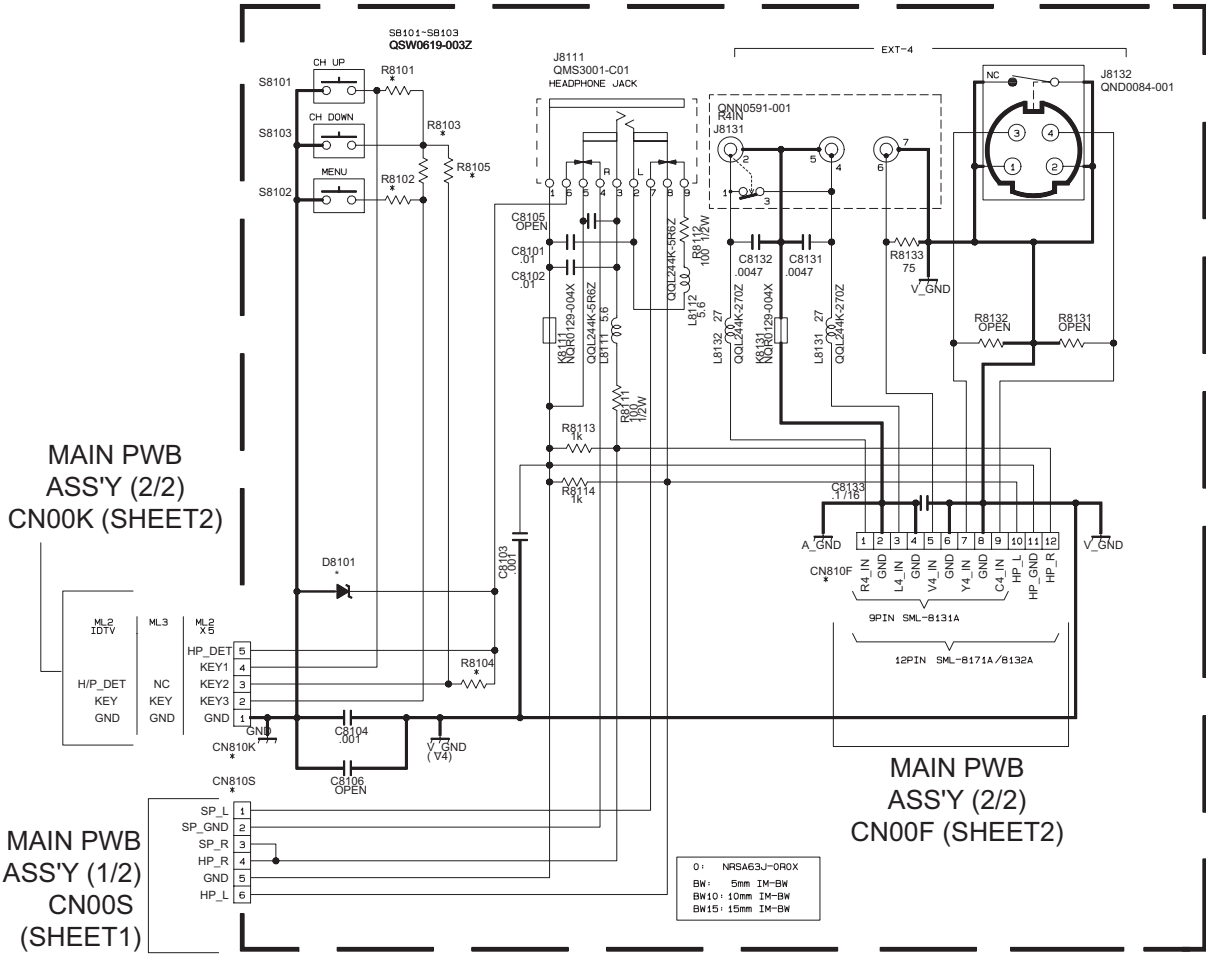


100Hz PWB ASS'Y(1/2)  
SML0Z301A-U2





100Hz PWB ASS'Y(2/2)  
SML0Z301A-U2



SIDE CONTROL PWB ASS'Y

SML-8131A-U2 [AV-28H5BU, AV-28H5SU, AV-32H5BU, AV-32H5SU, AV-32H5SK, AV-28H5BL, AV-28H5SK, AV-28H5SL, AV-28H5SR, AV-32H5SR]

SML-8133A-U2 [AV-28H50SU, AV-32H50SU, AV-32H57SU]

FRONT CONTROL PWB ASS'Y

SML-8301A-U2 [AV-28H5BU, AV-28H5SU, AV-32H5BU, AV-32H5SU, AV-32H5SK, AV-28H5BL, AV-28H5SK, AV-28H5SL, AV-28H5SR, AV-32H5SR]

SML-8302A-U2 [AV-28H50SU, AV-32H50SU, AV-32H57SU]

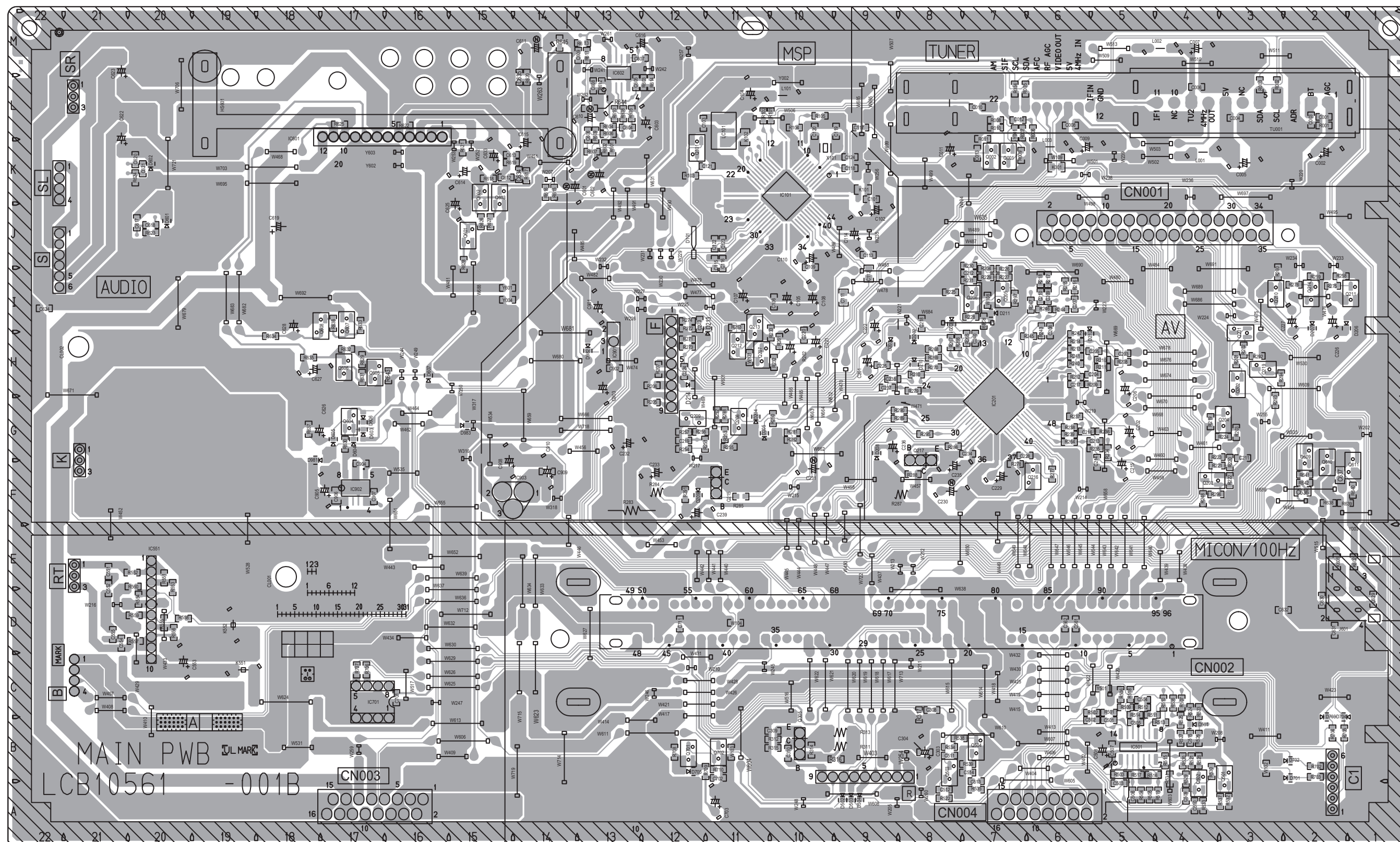
\*DIFFERENCE LIST

	SML-8131A	SML-8171A	SML-8132A
CN810S	QGA2501 F1-06	OPEN	OPEN
CN810F	QGA2501 F1-09	QGA2501 F1-12	QGA2501 F1-12
CN810K	QGA2501 F1-03	QGA2501 F1-03	QGA2501 F1-05
R8101	820	820	OPEN
R8102	1.5k	1.5k	0
R8103	0	0	OPEN
R8104	OPEN	0	OPEN
R8105	OPEN	OPEN	0
D8101	OPEN	UDZ5S.6 B-X	UDZ5S.6 B-X

\*DIFFERENCE LIST

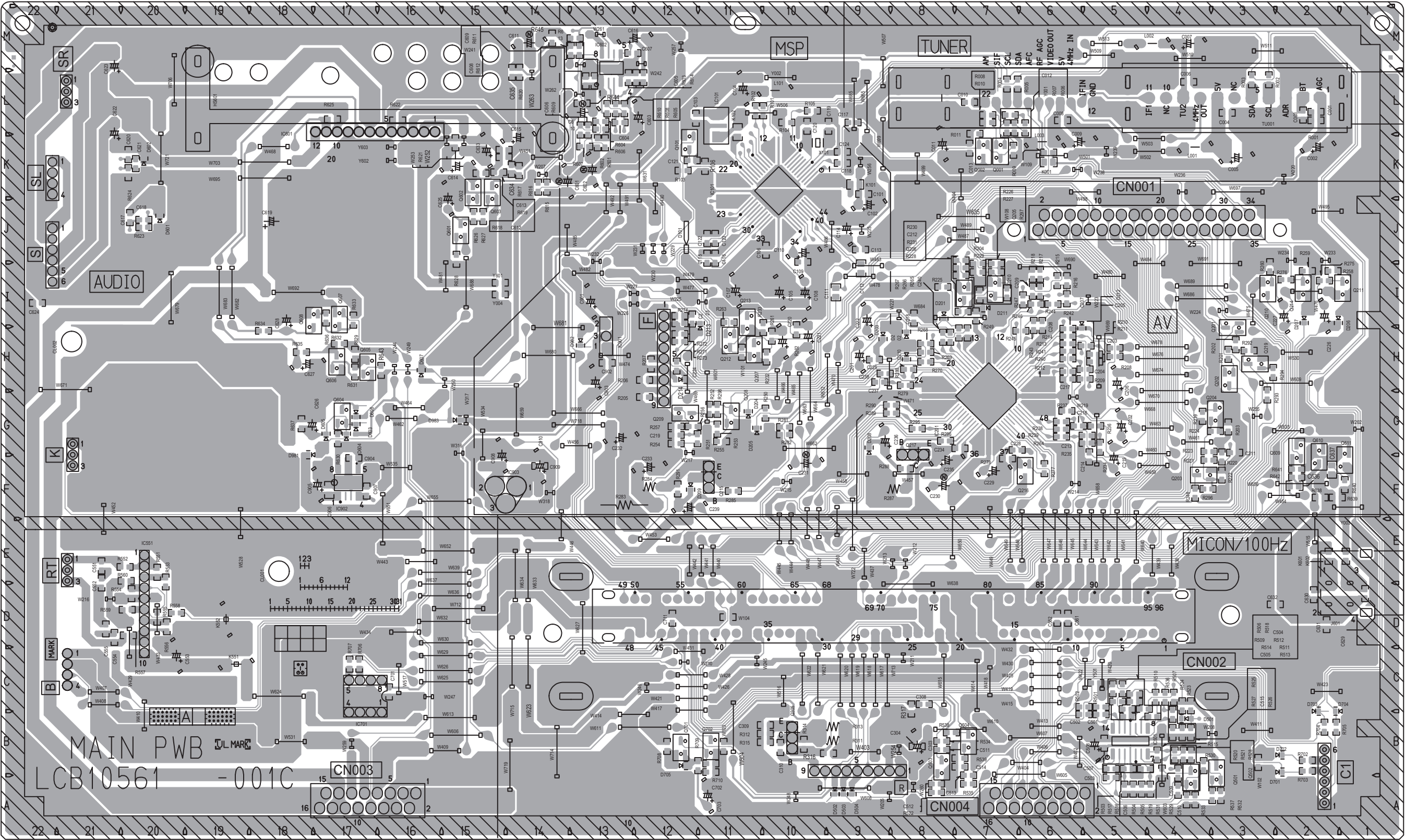
	SML-8301A	SML-8701A
Q8801	UN2212-X	OPEN
Q8802	OPEN	UN2216-X
Q8803	OPEN	UN2216-X
R8801	2.2k	OPEN
R8802	330	OPEN
R8803	OPEN	180
R8804	0	OPEN
R8805	OPEN	220
CN800B	QGA2501 C5-04Z	QGA2501 C5-05Z
D8801	LH22440 -T16	SPR-39 MWWF

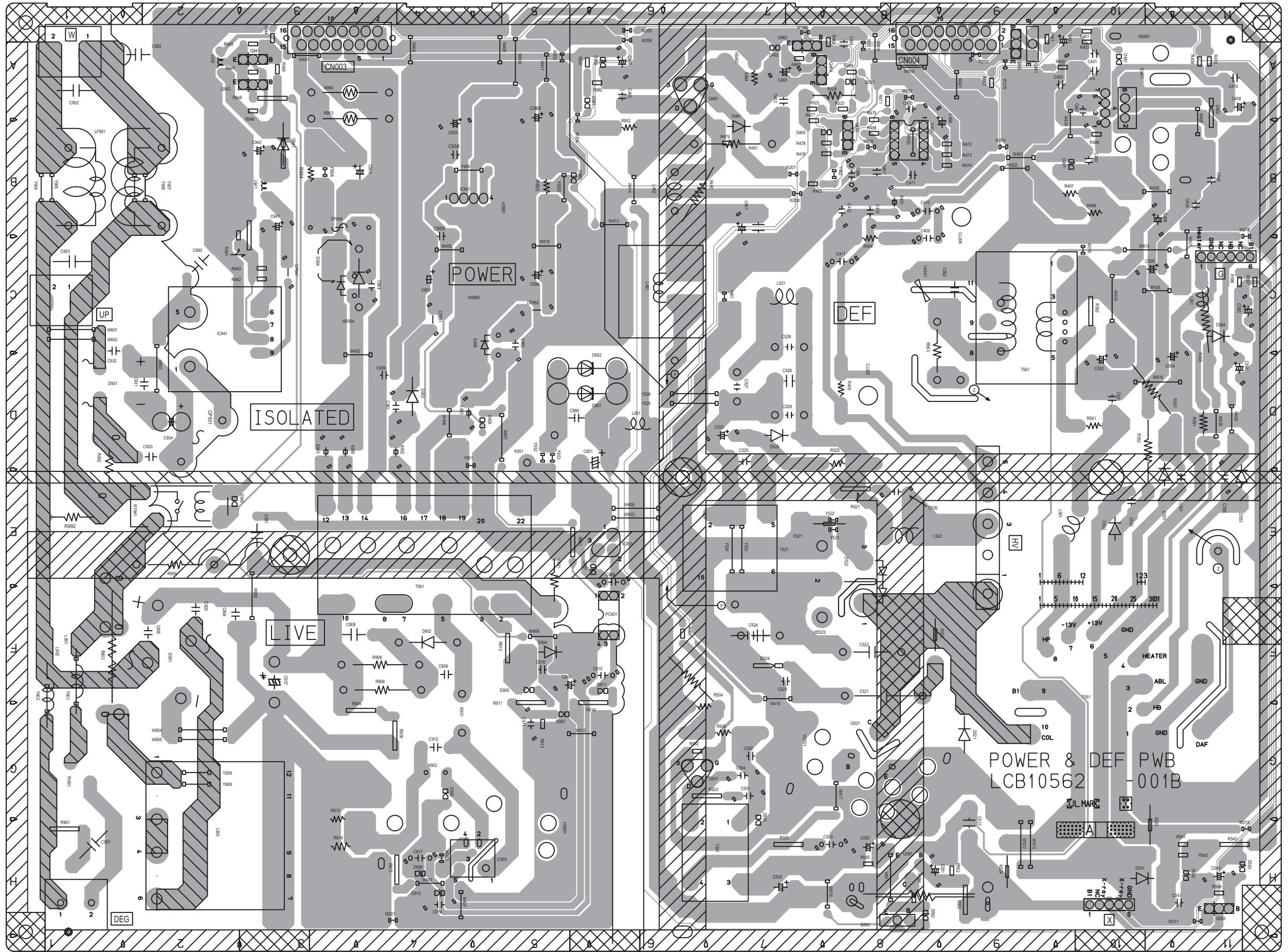
MAIN PWB PATTERN [AV-28H5BU, AV-28H5SU, AV-32H5BU, AV-32H5SU, AV-32H5SK,  
AV-28H50SU, AV-32H50SU, AV-32H57SU, AV-28H5SK, AV-28H5SR, AV-32H5SR]





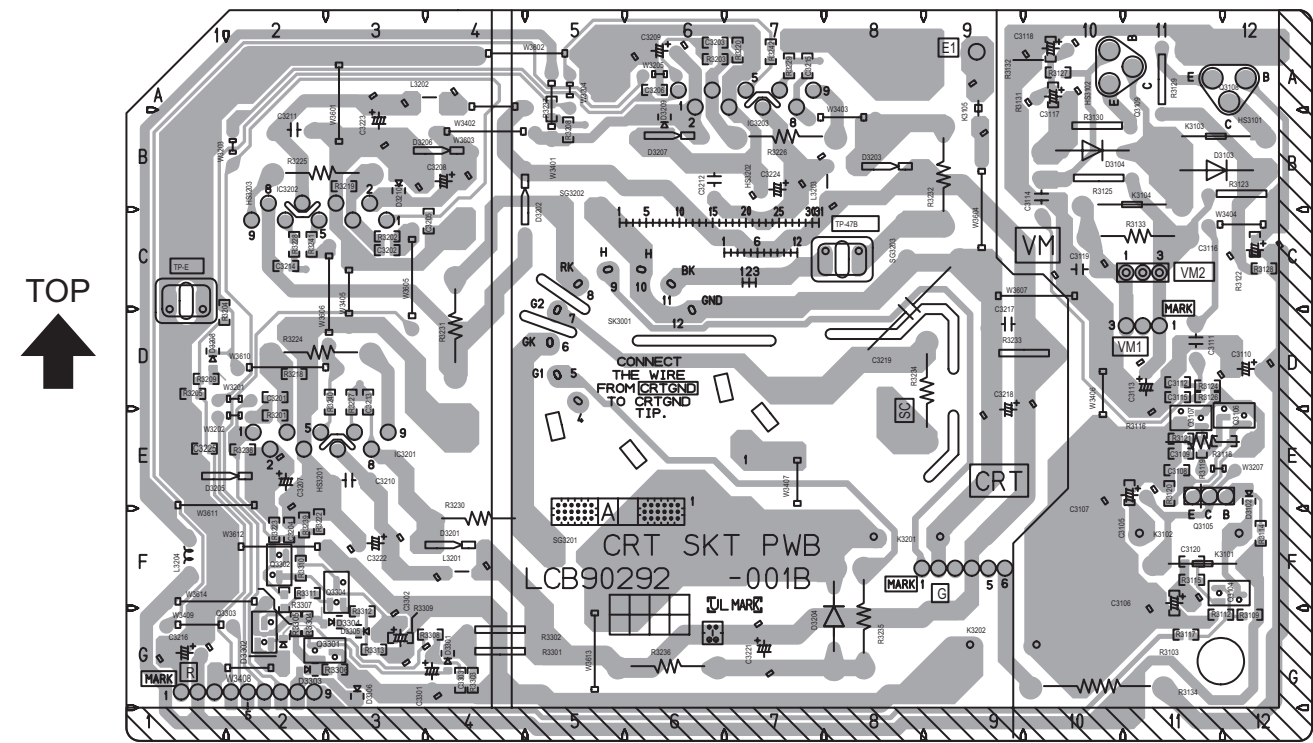
FRONT  
←



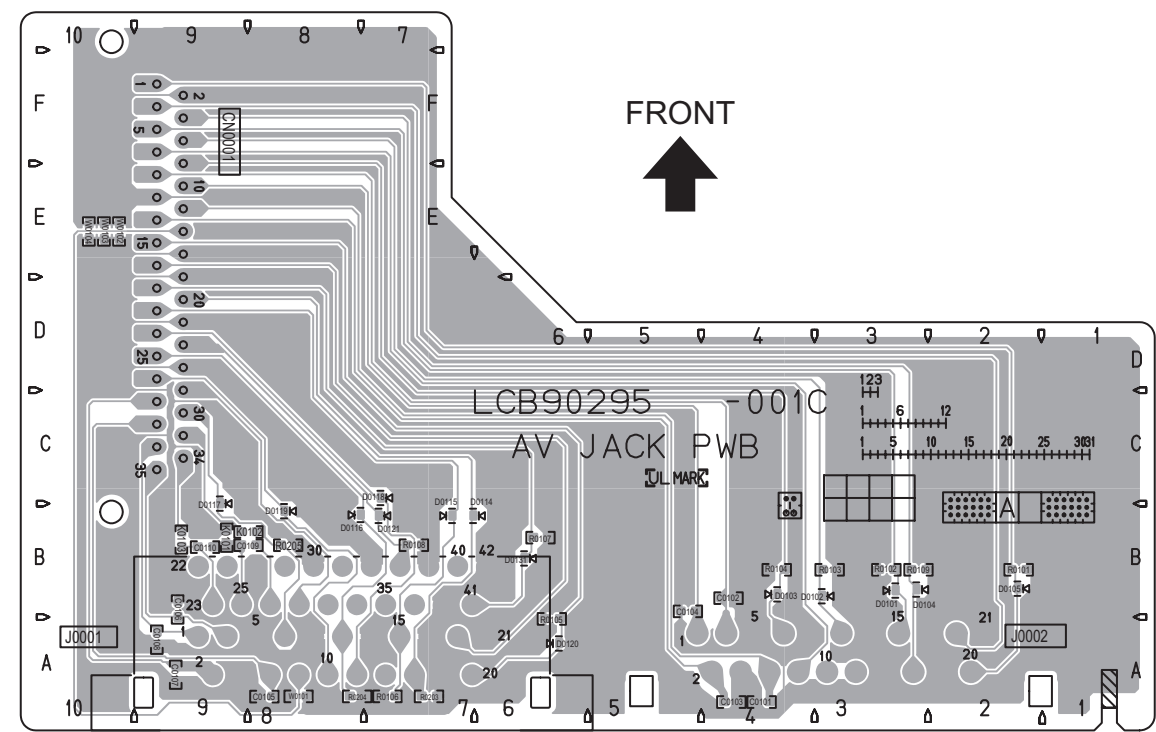




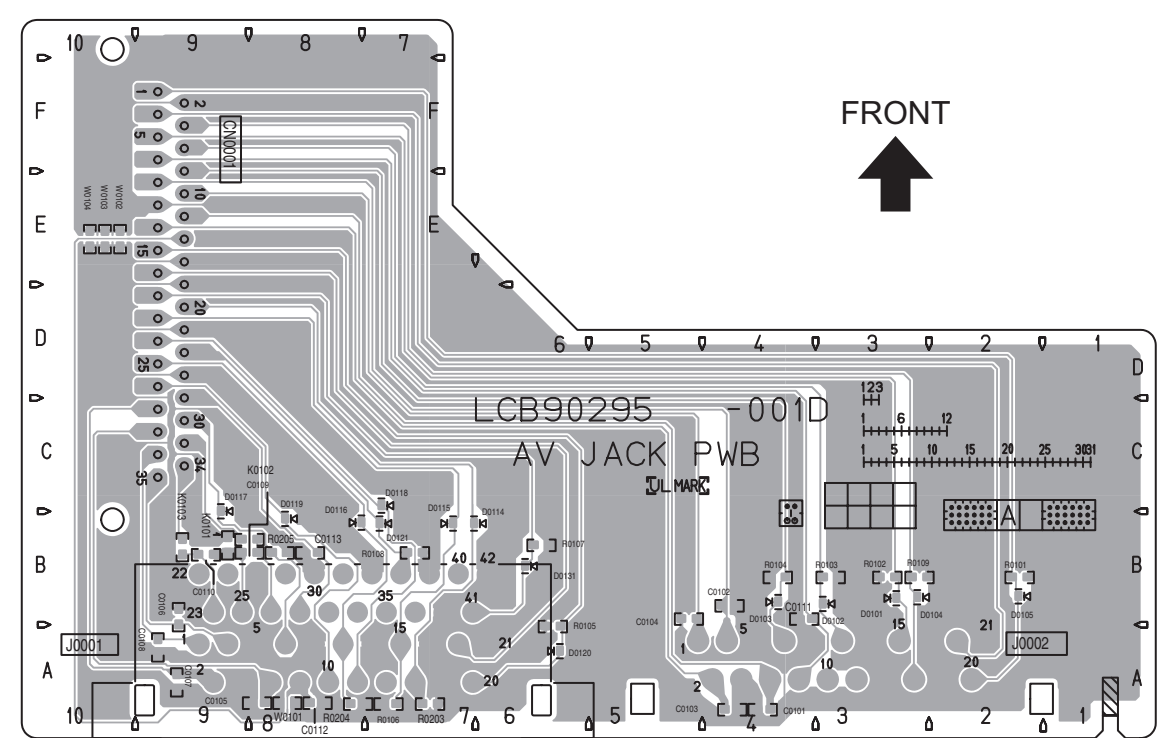
CRT SOCKET PWB PATTERN



AV JACK PWB PATTERN [AV-28H5BU, AV-28H5SU, AV-32H5BU, AV-32H5SU, AV-32H5SK, AV-28H50SU, AV-32H50SU, AV-32H57SU]

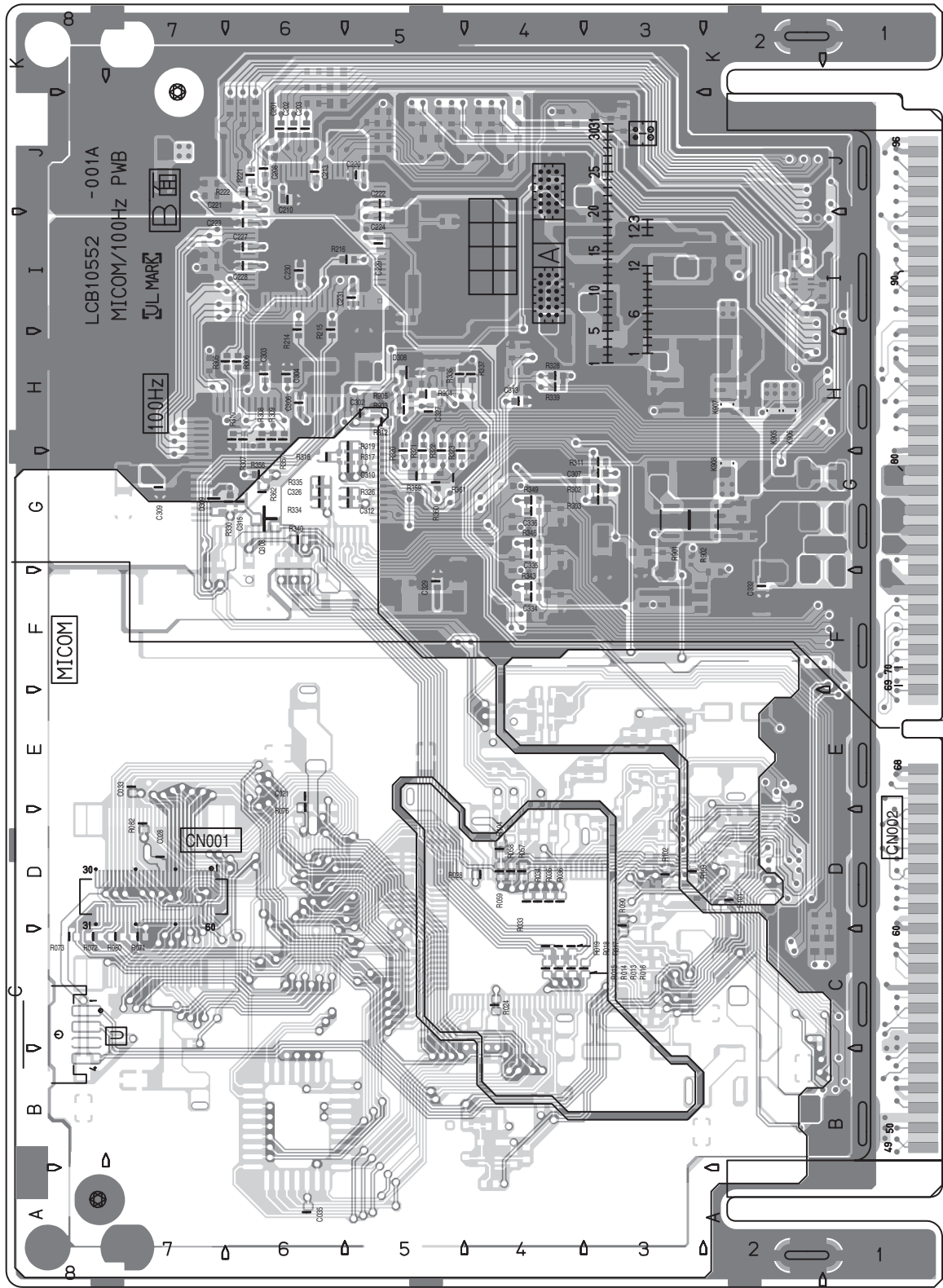


AV JACK PWB PATTERN [AV-28H5BL, AV-28H5SL, AV-28H5SK, AV-28H5SR, AV-32H5SR]



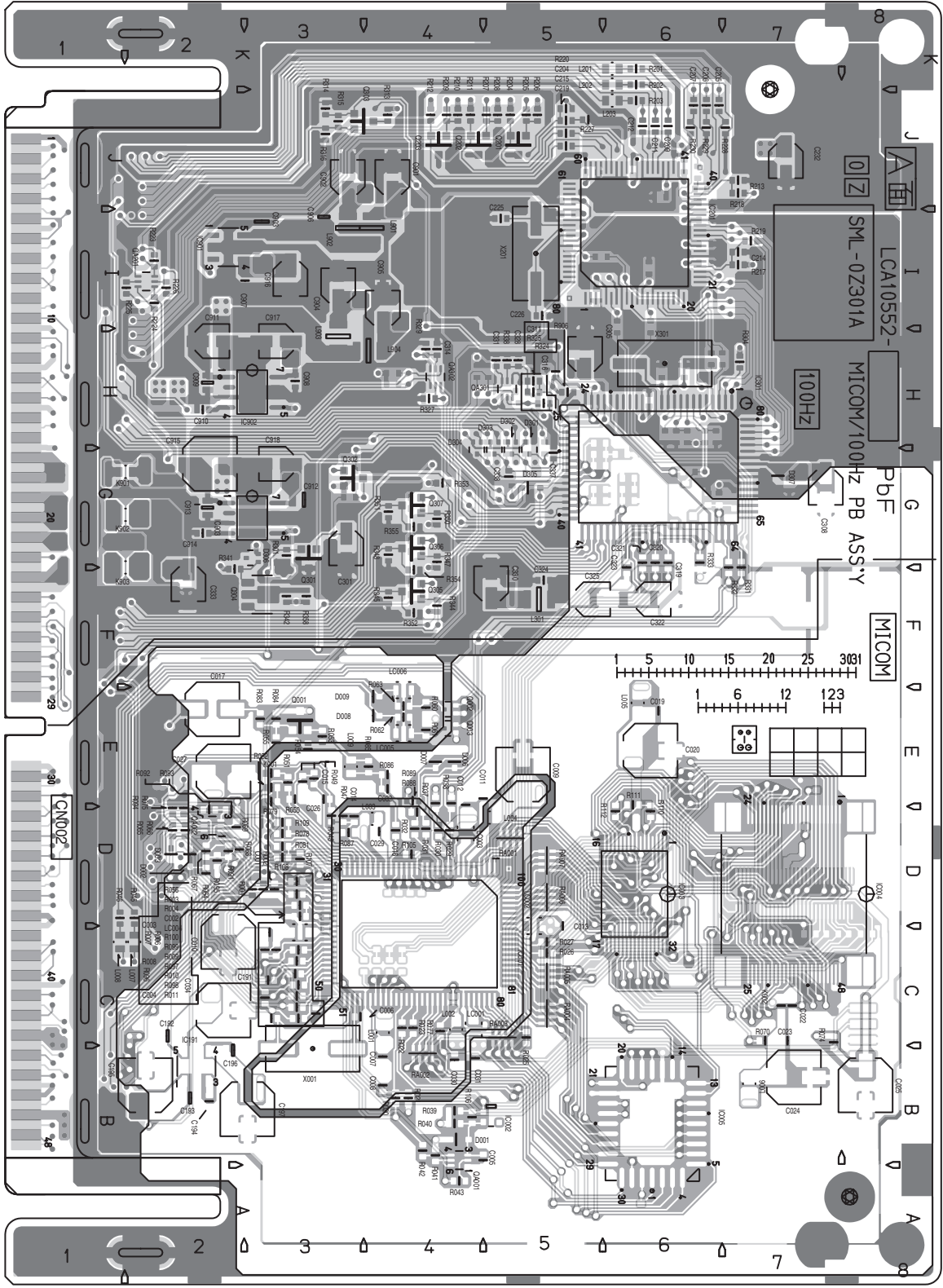
[SOLDER SIDE]

FRONT  
↑



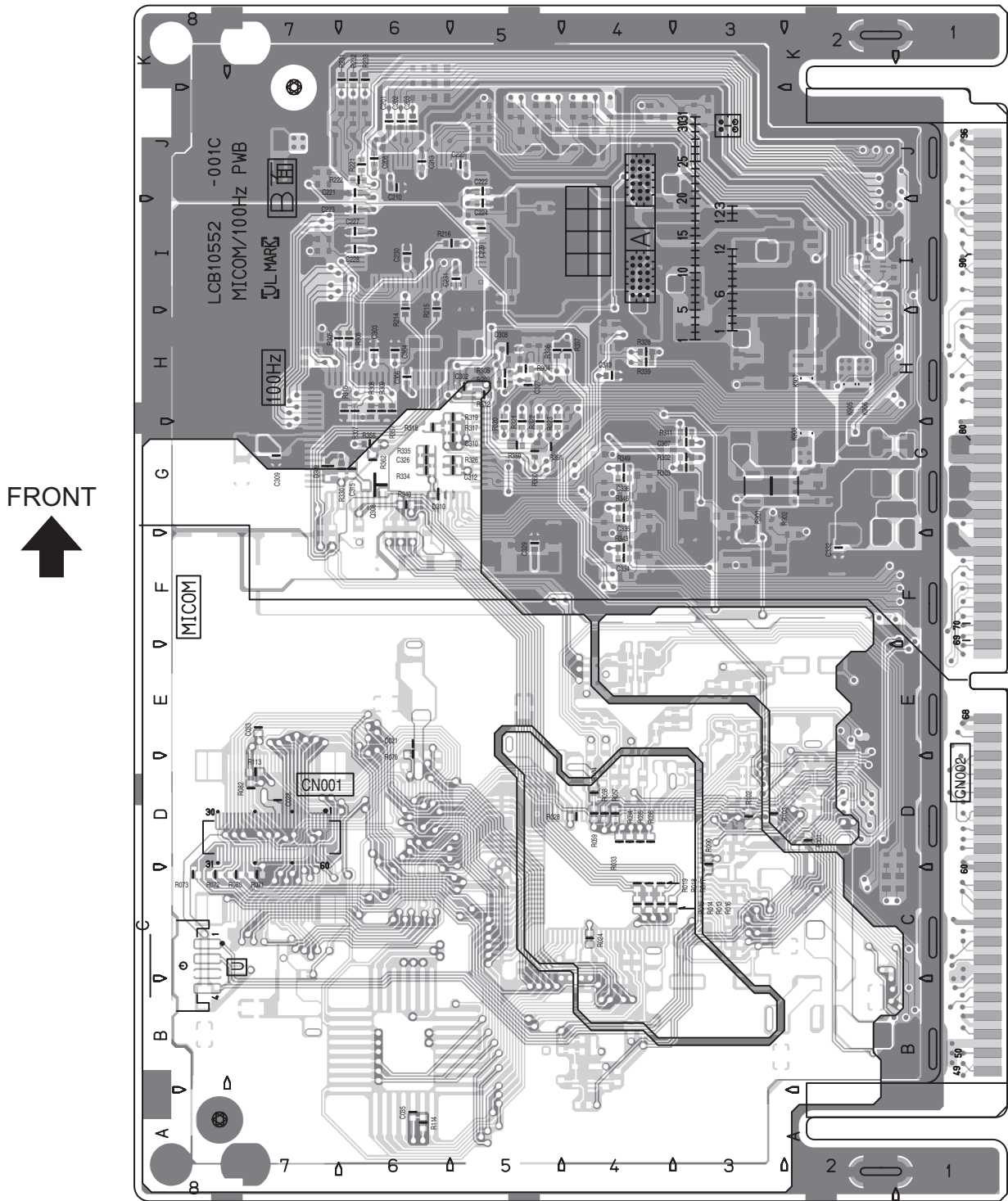
[PARTS SIDE]

FRONT  
↑

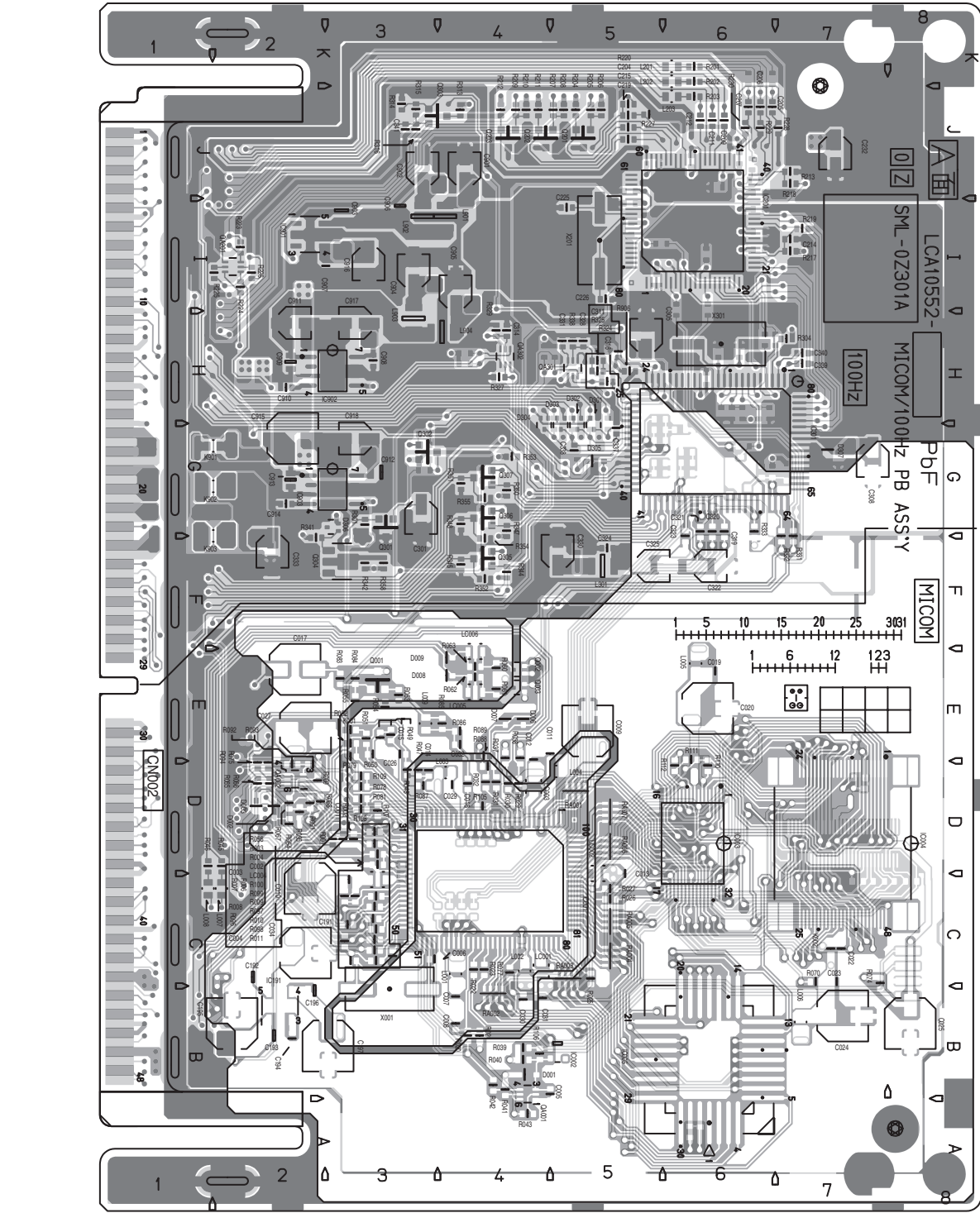




[SOLDER SIDE]



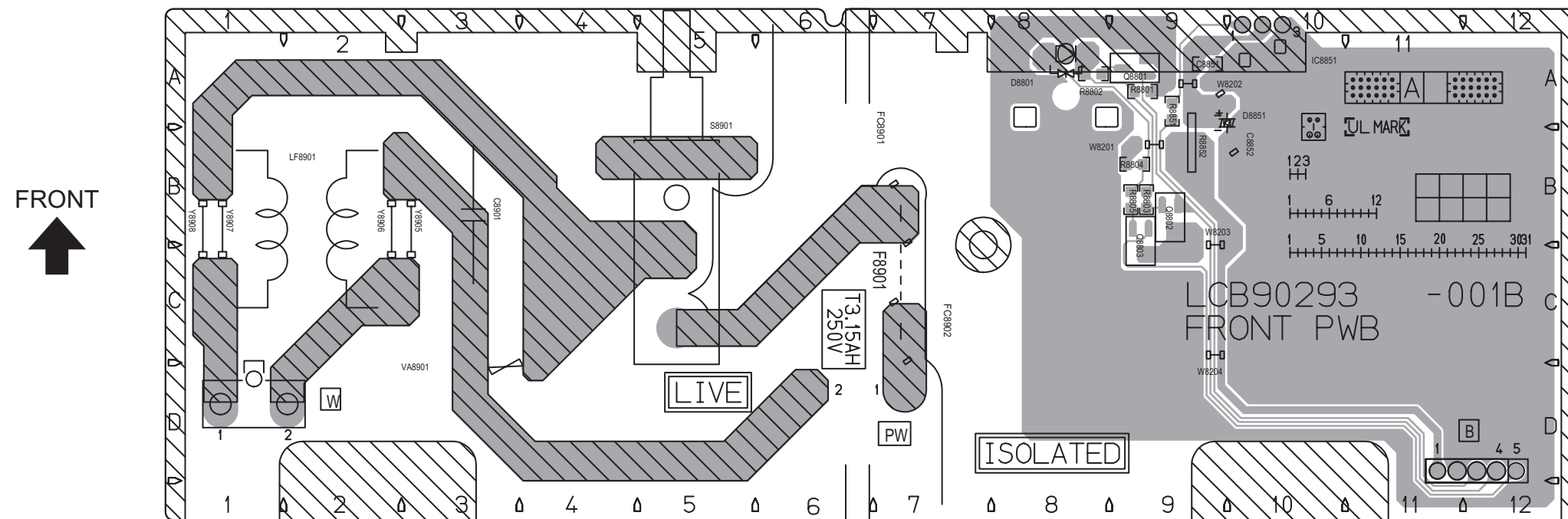
[PARTS SIDE]



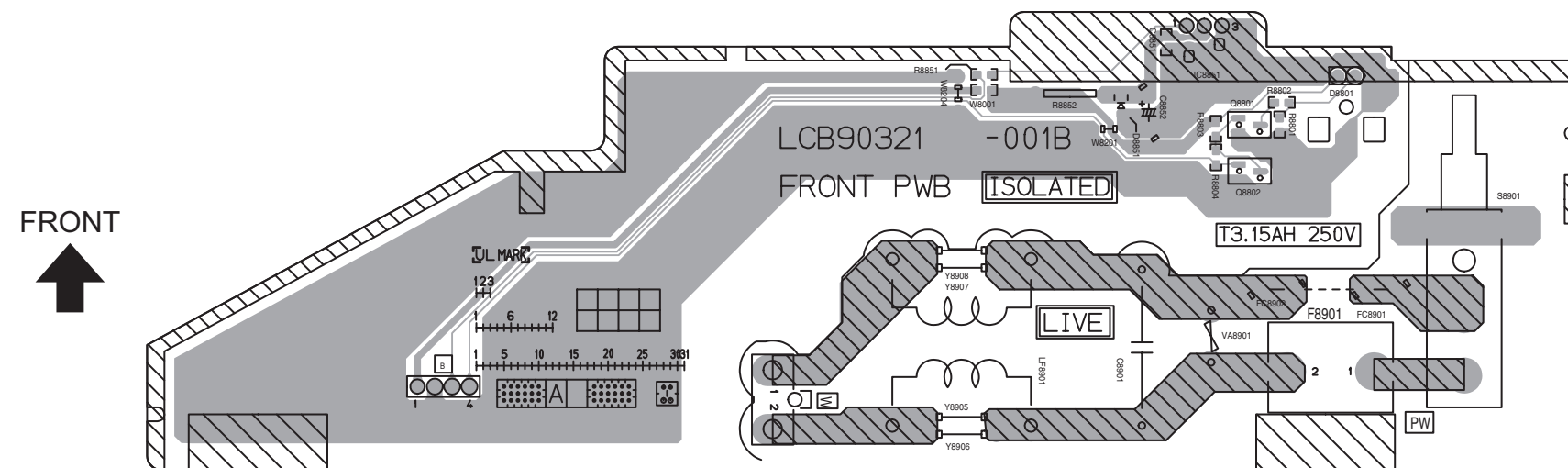




(No.YA263)2-37



FRONT CONTROL PWB PATTERN [AV-28H50SU, AV-32H50SU, AV-32H57SU]

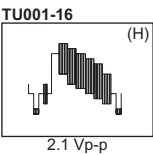


VOLTAGE CHARTS

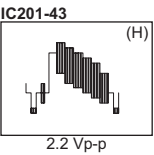
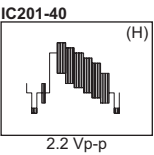
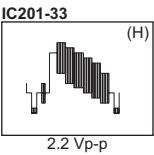
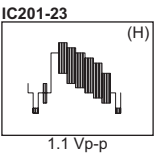
<MAIN PWB(1/2)> [P.2-5~P.2-6]		<POW & DEF PWB> [P.2-9~P.2-10]		<CRT SOCKET PWB> [P.2-11~P.2-12]		<100Hz PWB(1/2)> [P.2-15~P.2-16]		<100Hz PWB(2/2)> [P.2-17~P.2-18]		<FRONT PWB> [P.2-20]	
MODE PIN NO.	DC (V)	MODE PIN NO.	DC (V)	MODE PIN NO.	DC (V)	MODE PIN NO.	DC (V)	MODE PIN NO.	DC (V)	MODE PIN NO.	DC (V)
IC 101		Q 605		8	6.4	IC 401		34	1.7	QA 302	
1	5	E	0	9	0	1	0.6	50	0	27	0.6
2	1.5	C	4.1	10	11.8	2	14.3	51	0.2	28	NC
3	0	B	0	IC 701		3	-12.4	52	0	29	3
4	0	Q 606		1	0	4	-14.5	53	0.2	30	3.2
5	2.3	E	0	2	0	5	0.1	54	0	31	0
6	0	C	0	3	0	6	14.3	55	0	32	0
7	NC	B	0.6	4	0	7	0.6	56	0	33	3.1
8	0	Q 609		5	3.3	IC 461		57	0	34	0.2
9	0	E	0.1	6	3.3	1	3.5	58	0	35	0
10	2.5	C	-1.5	7	0	2	1	59	0	36	2.1
11	5	B	0	8	3.3	3	2.1	60	0	37	0
12	1.8	Q 610		IC 901		4	0	61	0	38	0
13	2.2	E	0	1	12	5	5.8	62	0	39	0
14	1.5	C	4.1	2	8	6	3.5	63	2.5	40	3.2
15	1.5	B	-1.5	3	0	7	10.5	64	2.5	41	0
16	1.4	Q 611		IC 902		8	12	65	0	42	0
17	NC	E	0	1	5	IC 901		66	0	43	0
18	1.5	C	4.1	2	0	1	296	67	0	44	0
19	5	B	-1.5	3	0	2	0	68	0	45	0
20	0			4	3.4	3	0	69	0	46	0
21	NC			5	5.8	4	18.7	70	0	47	0
22	5			6	0	5	1.3	71	0	48	0
23	NC			7	5.8	IC 941		72	0	49	0
24	NC			IC 903		1	25.3	73	3.2	50	*
25	0			1	11.8	5	-47.5	74	0	51	NC
26	0.1			2	8.9	6	0	75	1.1	52	0.4
27	0.1			3	0	7	0	76	1.1	53	0.6
28	NC			Q 201		8	0	77	1.3	54	NC
29	0			E	4.4	9	4.9	78	1.1	55	0
30	3.8			C	4.5	IC 951		79	2.1	56	2.4
31	3.8			B	0	1	140.7	80	1.1	57	0.3
32	NC			Q 202		2	10.6	IC 901		58	0.3
33	8.1			E	1	3	0	1	0	59	0.3
34	7			C	4.5	IC 961		2	0	60	0
35	0			B	0	1	13.2	3	0	61	NC
36	3.7			Q 207		2	11.9	4	5.9	62	3.2
37	3.7			E	0	3	0	5	1.8	63	NC
38	0			C	0	4	13.2	6	0	64	3.2
39	0			B	-1.5	Q 461		7	5.8	65	3.2
40	3.7			Q 210		S	0.5	IC 903		66	NC
41	3.8			E	0.1	D	16.3	1	0	67	0
42	2.6			C	-0.4	B	128.4	2	0	68	0
43	3.7			B	0	Q 3109		3	0	69	0
44	0			Q 211		E	0	4	0	70	0.1
IC 601				E	0	C	66.4	5	0	71	1.4
1	0			C	0	B	3.6	6	0	72	3.2
2	0			B	-1.2	Q 3301		7	0	73	2.4
3	28.7			Q 212		E	4.9	IC 301		74	0
4	0			E	0.1	C	0	1	1.1	75	3.2
5	0			C	-1.4	B	0	2	1.8	76	0.5
6	0			B	0	Q 3303		3	3.2	77	2.5
7	14.2			Q 213		E	5.6	4	2	78	0.3
8	0.6			E	0	C	-1.5	5	0.3	79	1.3
9	0			C	0	B	5.9	6	0	80	3.2
10	30			B	-1.5	Q 3304		7	0	81	1.1
11	16			Q 214		E	0	8	0	82	1.6
12	14.4			E	0	C	3	9	0	83	1.6
TU 001				C	0	B	-1.5	10	0	84	1.6
1	18			Q 482		E	0	11	1.4	85	1.6
2	3.2			E	0	C	0.4	12	1.4	86	1.6
3	0			Q 463		E	1	13	0	87	1.6
4	4.5			C	0	C	2.1	14	0	88	1.4
5	4.5			B	1.4	B	0	15	3.2	89	1.3
6	0			Q 216		Q 501		16	0	90	0
7	4.8			E	3.8	S	0	17	0	91	3.2
8	0			C	8.8	D	39.8	18	0	92	1.6
9	31.4			B	4.4	G	1.4	19	0	93	1.5
10	0			Q 217		Q 521		20	0	94	0
11	2.5			E	2.8	4	0	21	0	95	0.8
12	0			C	8.8	5	1.7	22	0	96	0.8
13	2.5			B	3.5	6	2.5	23	0	97	1.7
14	0			Q 219		7	3.2	24	3.3	98	1
15	4.9			E	0	8	0	25	0	99	0.6
16	1.3			C	0	9	2	26	0.1	100	1
17	1.8			B	0.6	10	1.8	27	0	IC 002	
18	1.7			Q 305		11	0	28	0	1	3.2
19	4.6			E	1	12	3.2	29	0	2	*
20	4.5			C	5.9	13	2.5	30	0.6	3	NC
21	2			B	1.8	14	0	31	0.1	4	0
22	2.5			Q 501		15	1.1	32	0	5	0
Q 001				E	0	16	1.1	33	0	6	2.4
E	2			C	12	17	0.3	34	0	7	0
C	4.6			B	-1.4	18	0.2	35	0	8	3.2
B	2.7			Q 502		19	0	36	0	9	0
Q 002				E	1.8	20	0	37	1.4	10	0
E	3.9			C	4.3	21	2.2	38	1.5	11	0
C	8.9			B	2.4	22	1.1	39	2.4	12	3.2
B	4.6			Q 701		23	0	40	0	13	3.2
Q 101				E	5.6	24	1.9	41	4.7	14	0
E	0			C	0	25	3.2	42	4.7	15	0
C	4.9			B	5.8	26	0	43	4.7	16	0
B	0			Q 702		27	0	44	4.7	17	1.6
Q 604				E	0	28	1.7	45	0		
E	5.3			C	3.3	29	0	46	2.3		
C	-1.8			B	0	30	1.3	47	5		
B	5.8					31	1.1	48	2.5		
						32	1.1	49	0		
						33	0				

WAVEFORMS

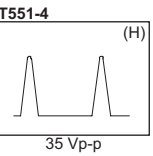
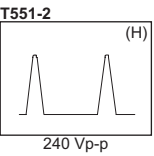
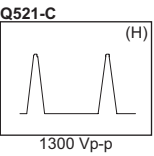
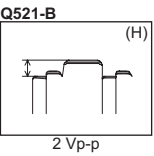
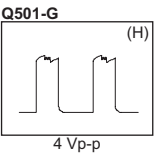
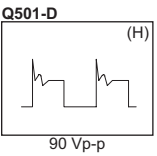
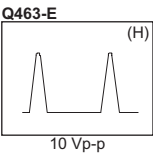
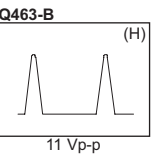
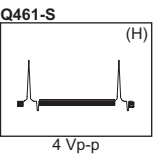
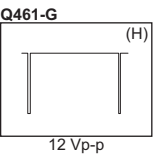
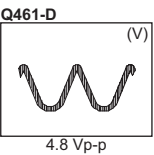
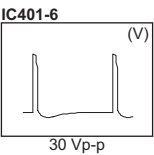
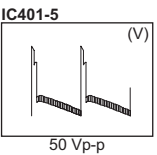
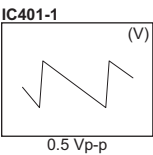
MAIN PWB(1/2)



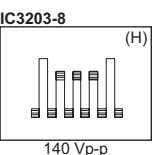
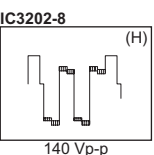
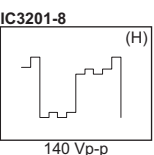
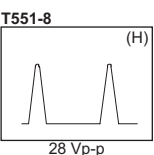
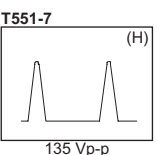
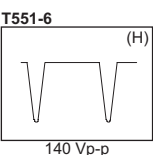
MAIN PWB(2/2)



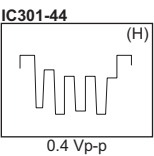
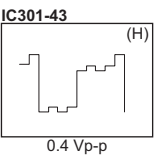
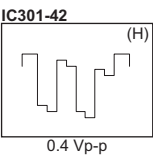
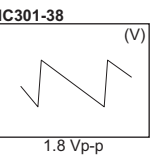
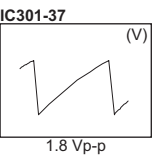
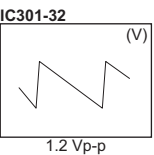
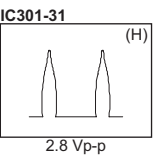
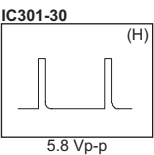
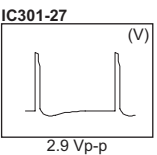
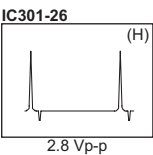
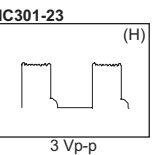
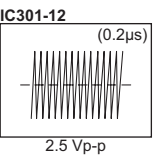
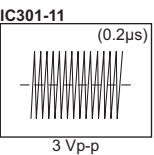
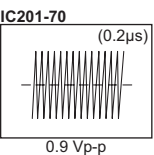
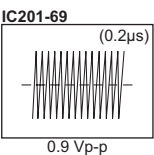
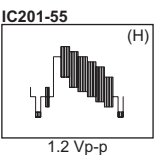
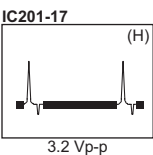
POWER & DEF PWB



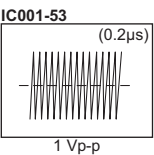
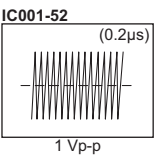
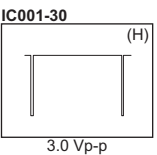
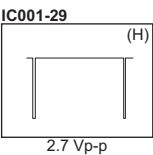
CRT SOCKET PWB



100Hz PWB(1/2)



100Hz PWB(2/2)





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(No.YA263)



Printed in Japan  
VPT

# PARTS LIST

## CAUTION

- The parts identified by the  $\Delta$  symbol are important for the safety . Whenever replacing these parts, be sure to use specified ones to secure the safety.
- The parts not indicated in this Parts List and those which are filled with lines --- in the Parts No. columns will not be supplied.
- P.W. BOARD Ass'y will not be supplied, but those which are filled with the Parts No. in the Parts No. columns will be supplied.

### ABBREVIATIONS OF RESISTORS, CAPACITORS AND TOLERANCES

RESISTORS		CAPACITORS	
CR	Carbon Resistor	C CAP.	Ceramic Capacitor
FR	Fusible Resistor	E CAP.	Electrolytic Capacitor
PR	Plate Resistor	M CAP.	Mylar Capacitor
VR	Variable Resistor	CH CAP.	Chip Capacitor
HV R	High Voltage Resistor	HV CAP.	High Voltage Capacitor
MF R	Metal Film Resistor	MF CAP.	Metalized Film Capacitor
MG R	Metal Glazed Resistor	MM CAP.	Metalized Mylar Capacitor
MP R	Metal Plate Resistor	MP CAP.	Metalized Polystyrol Capacitor
OM R	Metal Oxide Film Resistor	PP CAP.	Polypropylene Capacitor
CMF R	Coating Metal Film Resistor	PS CAP.	Polystyrol Capacitor
UNF R	Non-Flammable Resistor	TF CAP.	Thin Film Capacitor
CH V R	Chip Variable Resistor	MPP CAP.	Metalized Polypropylene Capacitor
CH MG R	Chip Metal Glazed Resistor	TAN. CAP.	Tantalum Capacitor
COMP. R	Composition Resistor	CH C CAP.	Chip Ceramic Capacitor
LPTC R	Linear Positive Temperature Coefficient Resistor	BP E CAP.	Bi-Polar Electrolytic Capacitor
		CH AL E CAP.	Chip Aluminum Electrolytic Capacitor
		CH AL BP CAP.	Chip Aluminum Bi-Polar Capacitor
		CH TAN. E CAP.	Chip Tantalum Electrolytic Capacitor
		CH AL BP E CAP.	Chip Tantalum Bi-Polar Electrolytic Capacitor

RESISTORS									
F	G	J	K	M	N	R	H	Z	P
±1%	±2%	±5%	±10%	±20%	±30%	+30% -10%	+50% -10%	+80% -20%	+100% -0%

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## USING P.W. BOARD & REMOTE CONTROL UNIT

P.W.B ASS'Y name	AV-28H5BU	AV-28H5BL	AV-28H5SK	AV-28H5SL	AV-28H5SR	AV-28H5SU	AV-28H50SU
MAIN P.W.B	SML-1302A-U2	←	SML-1932A-U2	SML-1302A-U2	←	←	←
POWER & DEF P.W.B	SML-2302A-S2	←	←	←	SML-2302A-U2	SML-2302A-S2	←
CRT SOCKET P.W.B	SML-3302A-U2	←	←	←	←	←	←
SIDE CONTROL P.W.B	SML-8131A-U2	←	←	←	←	←	SML-8133A-U2
FRONT CONTROL P.W.B	SML-8301A-U2	←	←	←	←	←	SML-8302A-U2
AV JACK P.W.B	SML0J301A-U2	←	←	←	←	←	←
100HZ P.W.B	SML0Z301A-U2	←	←	←	←	←	←
REMOTE CONTROL UNIT	RM-C1502B-1C	←	RM-C1502-1C	←	←	←	←

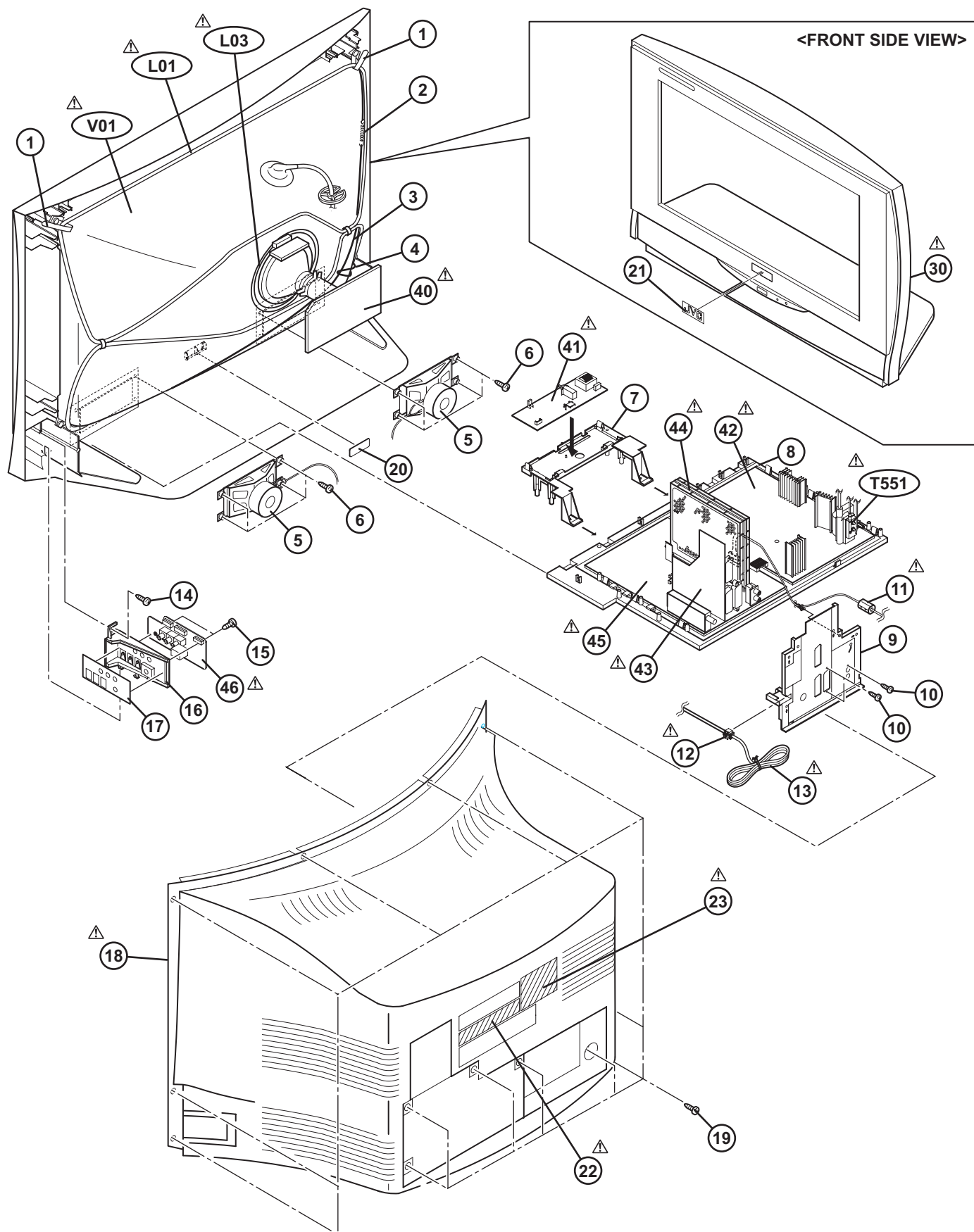
P.W.B ASS'Y name	AV-32H5BU	AV-32H5SK	AV-32H5SR	AV-32H5SU	AV-32H50SU	AV-32H57SU
MAIN P.W.B	SML-1301A-U2	SML-1931A-U2	SML-1301A-U2	←	←	←
POWER & DEF P.W.B	SML-2301A-S2	←	SML-2301A-U2	SML-2301A-S2	←	SML-2301A-U2
CRT SOCKET P.W.B	SML-3301A-U2	←	←	←	←	←
SIDE CONTROL P.W.B	SML-8131A-U2	←	←	←	SML-8133A-U2	←
FRONTCONTROL P.W.B	SML-8301A-U2	←	←	←	SML-8302A-U2	←
AV JACK P.W.B	SML0J301A-U2	←	←	←	←	←
100HZ P.W.B	SML0Z301A-U2	←	←	←	←	←
REMOTE CONTROL UNIT	RM-C1502B-1C	RM-C1502-1C	←	RM-C1502-1C	←	←

# EXPLODED VIEW PARTS LIST -1

△	Ref.No.	Part No.	Part Name	Description	Local
△	V01	W66QDE993X996	ITC	Inc.DEF YOKE/PC MAGNET	AV-28H5BL,AV-28H5BU,AV-28H5SK,AV-28H5SL,AV-28H5SR,AV-28H5SU
△	V01	W76QEN693X100	ITC	Inc.DEF YOKE/PC MAGNET	AV-32H5BU,AV-32H5SK,AV-32H5SR,AV-32H5SU
△	L01	QQW0168-002	DEG COIL		AV-28H5BL,AV-28H5BU,AV-28H5SK,AV-28H5SL,AV-28H5SR,AV-28H5SU
△	L01	QQW0169-001	DEG COIL		AV-32H5BU,AV-32H5SK,AV-32H5SR,AV-32H5SU
△	L03	QQW0130-001	ROTATION COIL		AV-28H5BL,AV-28H5BU,AV-28H5SK,AV-28H5SL,AV-28H5SR,AV-28H5SU
△	T551	QQH0181-001	FB TRANSF		AV-28H5BL,AV-28H5BU,AV-28H5SK,AV-28H5SL,AV-28H5SR,AV-28H5SU,AV-32H5BU,AV-32H5SK,AV-32H5SR,AV-32H5SU
	1	LC30628-002A	DEG CLAMP	(x4)	AV-28H5BL,AV-28H5BU,AV-28H5SK,AV-28H5SL,AV-28H5SR,AV-28H5SU,AV-32H5BU,AV-32H5SK,AV-32H5SR,AV-32H5SU
	2	LC32668-001A	SPRING		AV-28H5BL,AV-28H5BU,AV-28H5SK,AV-28H5SL,AV-28H5SR,AV-28H5SU,AV-32H5BU,AV-32H5SK,AV-32H5SR,AV-32H5SU
	3	WJY0021-001B-E	BRAIDED ASSY		AV-28H5BL,AV-28H5BU,AV-28H5SK,AV-28H5SL,AV-28H5SR
	3	WJY0021-001B	BRAIDED ASSY		AV-28H5SU
	3	WJY0021-002B-E	BRAIDED ASSY		AV-32H5BU,AV-32H5SK,AV-32H5SR
	3	WJY0021-002B	BRAIDED ASSY		AV-32H5SU
	4	WJY0013-002A-E	BRAIDED ASSY		AV-28H5BL,AV-28H5BU,AV-28H5SK,AV-28H5SL,AV-28H5SR,AV-32H5BU,AV-32H5SK,AV-32H5SR
	4	WJY0013-002A	BRAIDED ASSY		AV-28H5SU,AV-32H5SU
	5	QAS0326-001	SPEAKER	SP01/SP02(x2)	AV-28H5BL,AV-28H5BU,AV-28H5SK,AV-28H5SL,AV-28H5SR,AV-28H5SU,AV-32H5BU,AV-32H5SK,AV-32H5SR,AV-32H5SU
	6	QYSBSAG4016NA	TAP SCREW	M4 x 16mm(x4)	AV-28H5BL,AV-28H5BU,AV-28H5SK,AV-28H5SL,AV-28H5SR,AV-28H5SU,AV-32H5BU,AV-32H5SK,AV-32H5SR,AV-32H5SU
	7	LC11795-003B-U	CONTROL BASE		AV-28H5BL,AV-28H5BU,AV-28H5SK,AV-28H5SL,AV-28H5SR,AV-28H5SU
	7	LC11795-004B-U	CONTROL BASE		AV-32H5BU,AV-32H5SK,AV-32H5SR,AV-32H5SU
	8	LC10716-002J-U	CHASSIS BASE		AV-28H5BL,AV-28H5BU,AV-28H5SK,AV-28H5SL,AV-28H5SR,AV-28H5SU,AV-32H5BU,AV-32H5SK,AV-32H5SR,AV-32H5SU
	9	LC11561-002B-U	AV TRMINAL BOARD		AV-28H5BL,AV-28H5BU,AV-32H5BU
	9	LC11561-001B-U	AV TERMINAL BOARD		AV-28H5SK,AV-28H5SL,AV-28H5SR,AV-28H5SU,AV-32H5SK,AV-32H5SR,AV-32H5SU
	10	QYSBSF3012MA	TAP SCREW	M3 x 12mm(x3)	AV-28H5BL,AV-28H5BU,AV-28H5SK,AV-28H5SL,AV-28H5SR,AV-28H5SU,AV-32H5BU,AV-32H5SK,AV-32H5SR,AV-32H5SU
△	11	QQR0491-001	FERRITE CORE		AV-28H5BL,AV-28H5BU,AV-28H5SK,AV-28H5SL,AV-28H5SR,AV-28H5SU,AV-32H5BU,AV-32H5SK,AV-32H5SR,AV-32H5SU
△	12	CM46618-A01-E	POWER CORD CLMP		AV-28H5BL,AV-28H5BU,AV-28H5SK,AV-28H5SL,AV-28H5SR,AV-28H5SU,AV-32H5BU,AV-32H5SK,AV-32H5SR,AV-32H5SU
△	13	QMPN130-185-JC	POWER CORD(EU)	1.85m BLACK	AV-28H5SK,AV-28H5SR,AV-32H5SK,AV-32H5SR
△	13	QMPK160-185-JC	POWER CORD(EU)	1.85m BLACK	AV-28H5BL,AV-28H5BU,AV-28H5SL,AV-28H5SU,AV-32H5BU,AV-32H5SU
	14	QYSBSAG4016NA	TAP SCREW	M4 x 16mm	AV-28H5BL,AV-28H5BU,AV-28H5SK,AV-28H5SL,AV-28H5SR,AV-28H5SU,AV-32H5BU,AV-32H5SK,AV-32H5SR,AV-32H5SU
	15	QYSBSFG3010ZA	TAP SCREW	M3 x 10mm(x2)	AV-28H5BL,AV-28H5BU,AV-28H5SK,AV-28H5SL,AV-28H5SR,AV-28H5SU,AV-32H5BU,AV-32H5SK,AV-32H5SR,AV-32H5SU
	16	LC11825-002B-U	SIDE CONTROL BASE		AV-28H5BL,AV-28H5BU,AV-28H5SK,AV-28H5SL,AV-28H5SR,AV-28H5SU,AV-32H5BU,AV-32H5SK,AV-32H5SR,AV-32H5SU
	17	LC32584-001A-C	CONTROL SHEET		AV-28H5BL,AV-28H5BU,AV-28H5SK,AV-28H5SL,AV-28H5SR,AV-28H5SU,AV-32H5BU,AV-32H5SK,AV-32H5SR,AV-32H5SU
△	18	LC11707-003C-U	REAR COVER		AV-28H5BL,AV-28H5BU
△	18	LC11707-001C-U	REAR COVER		AV-28H5SK,AV-28H5SL,AV-28H5SR,AV-28H5SU
△	18	LC11770-003B-U	REAR COVER		AV-32H5BU
△	18	LC11770-001B-U	REAR COVER		AV-32H5SK,AV-32H5SR,AV-32H5SU
	19	QYSBSAG4016NA	TAP SCREW	M4 x 16mm(x13)	AV-28H5BL,AV-28H5BU,AV-28H5SK,AV-28H5SL,AV-28H5SR,AV-28H5SU,AV-32H5BU,AV-32H5SK,AV-32H5SR,AV-32H5SU
	20	LC33060-001C-C	WINDOW		AV-28H5BL,AV-28H5BU,AV-28H5SK,AV-28H5SL,AV-28H5SR,AV-28H5SU,AV-32H5BU,AV-32H5SK,AV-32H5SR,AV-32H5SU
	21	LC41852-001A	JVC MARK ASSY		AV-28H5BL
△	22	LC12098-022A-U	RATING LABEL		AV-28H5BU
△	22	LC12098-006A-U	RATING LABEL		AV-28H5SK
△	22	LC11364-086A-U	RATING LABEL		AV-28H5SL
△	22	LC12098-021A-U	RATING LABEL		AV-28H5SR
△	22	LC12394-001A-U	RATING LABEL		AV-28H5SU
△	22	LC12098-005A-U	RATING LABEL		AV-32H5BU
△	22	LC12097-003A-U	RATING LABEL		AV-32H5SK
△	22	LC11364-085A-U	RATING LABEL		AV-32H5SR
△	22	LC12394-002A-U	RATING LABEL		AV-32H5SU
△	22	LC12097-002A-U	RATING LABEL		AV-28H5BU,AV-28H5SK,AV-28H5SU,AV-32H5BU,AV-32H5SK,AV-32H5SU
△	23	LC30789-002B-U	WARNING LABEL		
△	30	LC12186-002A-U	FRONT CABINET ASSY		AV-28H5BL,AV-28H5BU
△	30	LC12186-001A-U	FRONT CABINET ASSY		AV-28H5SK,AV-28H5SL,AV-28H5SR,AV-28H5SU
△	30	LC12184-002A-U	FRONT CABINET ASSY		AV-32H5BU
△	30	LC12184-001A-U	FRONT CABINET ASSY		AV-32H5SK,AV-32H5SR,AV-32H5SU
△	40	SML-3302A-U2	CRT SOCKET PWB		AV-28H5BL,AV-28H5BU,AV-28H5SK,AV-28H5SL,AV-28H5SR,AV-28H5SU
△	40	SML-3301A-U2	CRT SOCKET PWB		AV-32H5BU,AV-32H5SK,AV-32H5SR,AV-32H5SU
△	41	SML-8301A-U2	FRONT CONTROL PWB		AV-28H5BL,AV-28H5BU,AV-28H5SK,AV-28H5SL,AV-28H5SR,AV-28H5SU,AV-32H5BU,AV-32H5SK,AV-32H5SR,AV-32H5SU
△	42	SML-2302A-U2	POWER & DEF PWB		AV-28H5SR
△	42	SML-2302A-S2	POWER & DEF PWB		AV-28H5BL,AV-28H5BU,AV-28H5SK,AV-28H5SL,AV-28H5SU
△	42	SML-2301A-U2	POWER & DEF PWB		AV-32H5SR
△	42	SML-2301A-S2	POWER & DEF PWB		AV-32H5BU,AV-32H5SK,AV-32H5SU
△	43	SML0J301A-U2	AV JACK PWB		AV-28H5BL,AV-28H5BU,AV-28H5SK,AV-28H5SL,AV-28H5SR,AV-28H5SU,AV-32H5BU,AV-32H5SK,AV-32H5SR,AV-32H5SU
△	44	SML0Z301A-U2	100HZ PB		AV-28H5BL,AV-28H5BU,AV-28H5SK,AV-28H5SL,AV-28H5SR,AV-28H5SU,AV-32H5BU,AV-32H5SK,AV-32H5SR,AV-32H5SU
△	45	SML-1932A-U2	MAIN PWB		AV-28H5SK
△	45	SML-1302A-U2	MAIN PWB		AV-28H5BL,AV-28H5BU,AV-28H5SL,AV-28H5SR,AV-28H5SU
△	45	SML-1931A-U2	MAIN PWB		AV-32H5SK
△	45	SML-1301A-U2	MAIN PWB		AV-32H5BU,AV-32H5SR,AV-32H5SU
△	46	SML-8131A-U2	SIDE CONTROL PWB		AV-28H5BL,AV-28H5BU,AV-28H5SK,AV-28H5SL,AV-28H5SR,AV-28H5SU,AV-32H5BU,AV-32H5SK,AV-32H5SR,AV-32H5SU



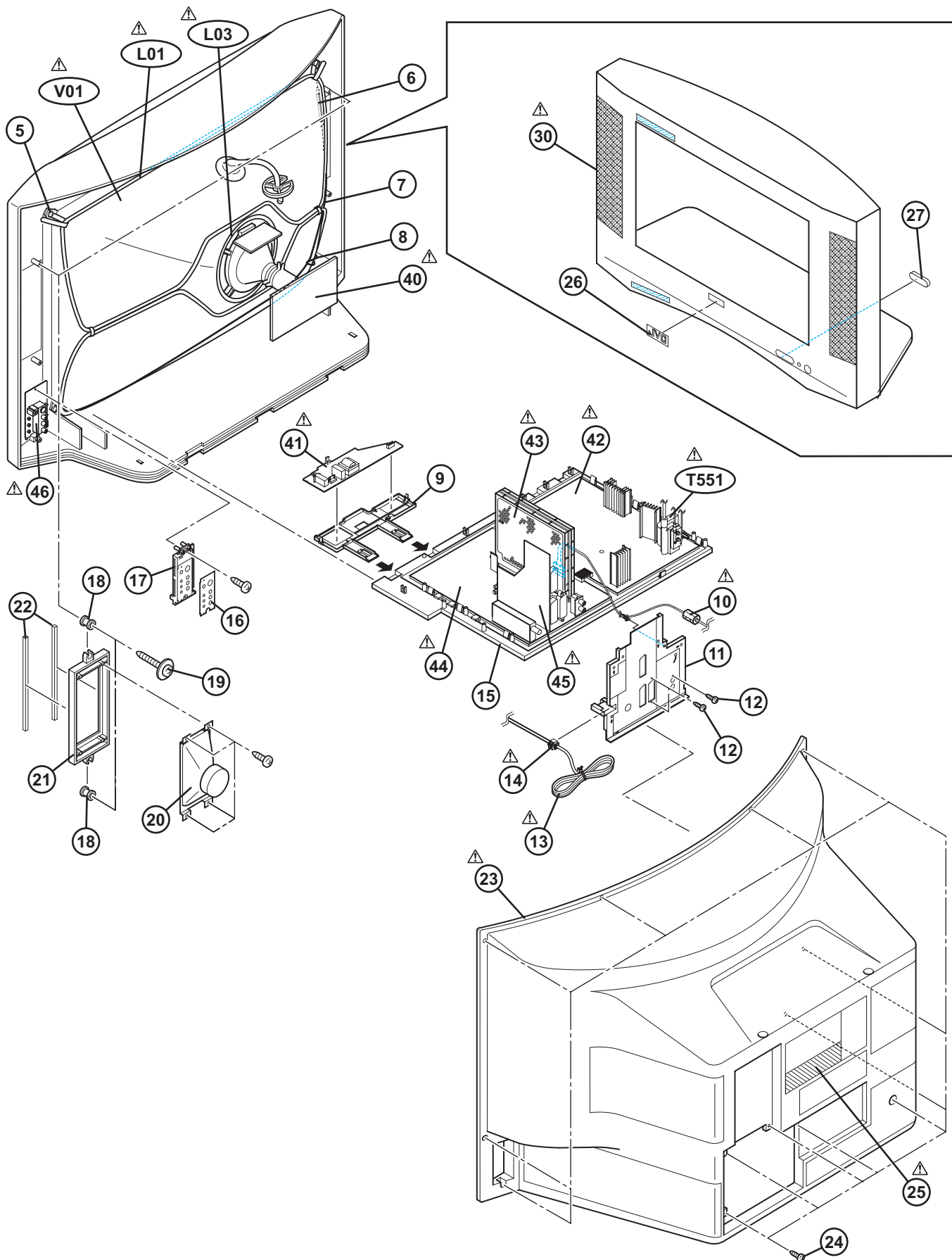
# EXPLODED VIEW -1



# EXPLODED VIEW PARTS LIST -2

△	Ref.No.	Part No.	Part Name	Description	Local
△	V01	W66QDE993X996	ITC	Inc.DEF YOKE/PC MAGNET	AV-28H50SU
△	V01	W76QEN693X100	ITC	Inc.DEF YOKE/PC MAGNET	AV-32H50SU
△	V01	W76QEN691X100	ITC	Inc.DEF YOKE/PC MAGNET	AV-32H57SU
△	L01	QQW0168-002	DEG COIL		AV-28H50SU
△	L01	QQW0169-001	DEG COIL		AV-32H50SU,AV-32H57SU
△	L03	QQW0130-001	ROTATION COIL		AV-28H50SU
△	T551	QQH0181-001	FB TRANSF		AV-28H50SU,AV-32H50SU,AV-32H57SU
	5	LC30628-002A	DEG CLAMP	(x4)	AV-28H50SU,AV-32H50SU,AV-32H57SU
	6	AEM3149-001-E	SPRING		AV-32H50SU
	6	GA30013-001A-U	SPRING		AV-28H50SU,AV-32H57SU
	7	WJY0021-001B-E	BRAIDED ASSY		AV-28H50SU
	7	WJY0021-002B	BRAIDED ASSY		AV-32H50SU
	7	WJY0021-002B-E	BRAIDED ASSY		AV-32H57SU
	8	WJY0013-002A	BRAIDED ASSY		AV-32H50SU
	8	WJY0013-002A-E	BRAIDED ASSY		AV-28H50SU,AV-32H57SU
	9	LC11311-001B-U	CONTROL BASE		AV-28H50SU
	9	LC11311-002A-U	CONTROL BASE		AV-32H50SU,AV-32H57SU
△	10	QQR0491-001	FERRITE CORE		AV-28H50SU,AV-32H50SU,AV-32H57SU
	11	LC11561-001B-U	AV TERMINAL BOARD		AV-28H50SU,AV-32H50SU,AV-32H57SU
	12	QYSBSF3012MA	TAP SCREW	M3 x 12mm(x3)	AV-28H50SU,AV-32H50SU,AV-32H57SU
△	13	QMPK160-185-JC	POWER CORD(EU)	1.85m BLACK	AV-28H50SU,AV-32H50SU,AV-32H57SU
△	14	CM46618-A01-E	POWER CORD CLMP		AV-28H50SU,AV-32H50SU,AV-32H57SU
	15	LC10716-002J-U	CHASSIS BASE		AV-28H50SU,AV-32H50SU,AV-32H57SU
	16	LC32585-002A-C	CONTROL SHEET		AV-28H50SU,AV-32H50SU,AV-32H57SU
	17	LC11824-001B-U	SIDE CONTROL BASE		AV-28H50SU,AV-32H50SU,AV-32H57SU
	18	LC40226-003A-H	SPACER	(x4)	AV-28H50SU,AV-32H50SU,AV-32H57SU
	19	LC40506-002A	TAPPING SCREW	(x4)	AV-28H50SU,AV-32H50SU,AV-32H57SU
	20	QAS0135-001	SPEAKER	SP01/SP02(x2)	AV-32H50SU
	20	QAS0348-001	SPEAKER	SP01/SP02(x2)	AV-28H50SU,AV-32H57SU
	21	LC11310-002A-U	SPEAKER ADAPTER	(x2)	AV-28H50SU,AV-32H50SU,AV-32H57SU
	22	AEM4111-001A-U	SPONGE	(x4)	AV-28H50SU,AV-32H50SU,AV-32H57SU
△	23	LC11282-001D-U	REAR COVER		AV-28H50SU
△	23	LC11316-002B-U	REAR COVER		AV-32H50SU,AV-32H57SU
	24	QYSBSAG4016NA	TAP SCREW	M4 x 16mm(x13)	AV-28H50SU
	24	QYSBSAG4016NA	TAP SCREW	M4 x 16mm(x4)	AV-32H50SU,AV-32H57SU
△	25	LC12098-013A-U	RATING LABEL		AV-28H50SU
△	25	LC12098-012A-U	RATING LABEL		AV-32H50SU
△	25	LC12098-014A-U	RATING LABEL		AV-32H57SU
	26	LC41250-002C-C	JVC MARK		AV-28H50SU,AV-32H50SU
	26	LC41522-002C	JVC MARK		AV-32H57SU
	27	LC31851-001B-C	WINDOW		AV-28H50SU,AV-32H50SU
	27	LC32229-001B-C	WINDOW		AV-32H57SU
△	30	LC11313-007C-U	FRONT CABINET ASSY		AV-28H50SU
△	30	LC11360-007C-U	FRONT CABINET ASSY		AV-32H50SU
△	30	LC11563-001C-U	FRONT CABINET ASSY		AV-32H57SU
△	40	SML-3302A-U2	CRT SOCKET PWB		AV-28H50SU
△	40	SML-3301A-U2	CRT SOCKET PWB		AV-32H50SU,AV-32H57SU
△	41	SML-8302A-U2	FRONT CONTROL PWB		AV-28H50SU,AV-32H50SU,AV-32H57SU
△	42	SML-2302A-S2	POWER & DEF PWB		AV-28H50SU
△	42	SML-2301A-S2	POWER & DEF PWB		AV-32H50SU
△	42	SML-2301A-U2	POWER & DEFPWB		AV-32H57SU
△	43	SML0Z301A-U2	100HZ PWB		AV-28H50SU,AV-32H50SU,AV-32H57SU
△	44	SML-1302A-U2	MAIN PWB		AV-28H50SU
△	44	SML-1301A-U2	MAIN PWB		AV-32H50SU,AV-32H57SU
△	44	SML-8133A-U2	SIDE CONTROL PWB		AV-32H50SU,AV-32H57SU
△	45	SML0J301A-U2	AV JACK PWB		AV-28H50SU,AV-32H50SU,AV-32H57SU
△	46	SML-8133A-U2	SIDE CONTROL PWB		AV-28H50SU

## EXPLODED VIEW -2



# PRINTED WIRING BOARD PARTS LIST

## [AV-28H5BU, AV-28H5BL, AV-28H5SL, AV-28H5SU]

### MAIN P.W. BOARD ASS'Y (SML-1302A-U2)

△Ref No.	Part No.	Part Name	Description Local
IC101	MSP3415GQGB8V3M	IC	
IC201	CXA2089Q-X	IC	
IC501	LM324D-X	IC	
IC551	LA6515	IC	
IC601	AN5277	IC	
IC701	ATE32-28H5BU	IC	(SERVICE)
IC901	AN78L08-T	IC	
IC902	MM1565AF-X	IC	
IC903	L7809CP	IC	
Q001	2SC3928A/QR/-X	TRANSISTOR	
Q002	2SC3928A/QR/-X	TRANSISTOR	
Q101	UN2213-X	DIGI TRANSISTOR	
Q201	2SC3928A/QR/-X	TRANSISTOR	
Q202	2SC3928A/QR/-X	TRANSISTOR	
Q207	UN2226-X	DIGI TRANSISTOR	
Q210	2SA1530A/QR/-X	TRANSISTOR	
Q211	UN2226-X	DIGI TRANSISTOR	
Q212	2SA1530A/QR/-X	TRANSISTOR	
Q213	UN2226-X	DIGI TRANSISTOR	
Q214	UN2226-X	DIGI TRANSISTOR	
Q215	KTA1267/YG/-T	TRANSISTOR	
Q216	2SC3928A/QR/-X	TRANSISTOR	
Q217	KTC3199/YG/-T	TRANSISTOR	
Q219	2SC3928A/QR/-X	TRANSISTOR	
Q305	KTC3199/YG/-T	TRANSISTOR	
Q501	2SC3928A/QR/-X	TRANSISTOR	
Q502	2SC3928A/QR/-X	TRANSISTOR	
Q604	2SA1530A/QR/-X	TRANSISTOR	
Q605	2SC3928A/QR/-X	TRANSISTOR	
Q606	2SC3928A/QR/-X	TRANSISTOR	
Q609	2SA1530A/QR/-X	TRANSISTOR	
Q610	UN2226-X	DIGI TRANSISTOR	
Q611	UN2226-X	DIGI TRANSISTOR	
Q701	2SA1530A/QR/-X	TRANSISTOR	
Q702	2SC3928A/QR/-X	TRANSISTOR	
D201	UDZS12B-X	Z DIODE	
D202	UDZS12B-X	Z DIODE	
D203	UDZS12B-X	Z DIODE	
D204	UDZS12B-X	Z DIODE	
D205	UDZS12B-X	Z DIODE	
D206	UDZS12B-X	Z DIODE	
D207	UDZS12B-X	Z DIODE	
D208	UDZS12B-X	Z DIODE	
D209	UDZS12B-X	Z DIODE	
D210	UDZS12B-X	Z DIODE	
D211	UDZS12B-X	Z DIODE	
D212	UDZS12B-X	Z DIODE	
D213	UDZS15B-X	Z DIODE	
D214	UDZS15B-X	Z DIODE	
D501	1SS355-X	SI DIODE	
D502	1SS355-X	SI DIODE	
D503	1SS355-X	SI DIODE	
D504	1SS355-X	SI DIODE	
D604	1SS355-X	SI DIODE	
D605	1SS355-X	SI DIODE	
D606	1SS355-X	SI DIODE	
D607	1SS355-X	SI DIODE	
D701	UDZS5.6B-X	Z DIODE	1.5kΩ 1/10W J
D702	UDZS5.6B-X	Z DIODE	1.5kΩ 1/10W J
D703	UDZS5.6B-X	Z DIODE	1.5kΩ 1/10W J
D704	UDZS5.6B-X	Z DIODE	1.5kΩ 1/10W J
D705	1SS355-X	SI DIODE	
D981	1SS355-X	SI DIODE	
D982	1SS355-X	SI DIODE	
D983	1SS355-X	SI DIODE	
C001	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C002	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C004	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C005	QETN1CM-108Z	E CAPACITOR	1000uF 16V M
C006	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C007	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C008	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C009	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C010	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C011	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C012	NCB31HK-103X	C CAPACITOR	0.01uF 50V K

△Ref No.	Part No.	Part Name	Description Local
C013	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C101	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C102	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C103	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C104	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C105	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C106	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C107	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C108	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C109	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C110	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C111	NCB21CK-105X	C CAPACITOR	1uF 16V K
C112	NCB21CK-105X	C CAPACITOR	1uF 16V K
C113	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C114	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C115	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
C116	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
C117	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C118	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C119	NDC31HJ-2R0X	C CAPACITOR	2pF 50V J
C120	NDC31HJ-2R0X	C CAPACITOR	2pF 50V J
C121	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C122	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
C123	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
C124	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C201	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C202	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C203	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C204	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C205	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C206	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C207	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C209	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C210	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C213	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C215	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C216	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C220	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C221	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C222	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C223	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C224	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C225	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C226	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C227	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C228	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C229	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C230	QENC1EM-106Z	BP E CAPACITOR	10uF 25V M
C231	QENC1EM-106Z	BP E CAPACITOR	10uF 25V M
C232	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C233	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C234	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C235	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C236	QETN1CM-477Z	E CAPACITOR	470uF 16V M
C237	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C238	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C239	QETN1CM-477Z	E CAPACITOR	470uF 16V M
C303	QETN1CM-227Z	E CAPACITOR	220uF 16V M
C304	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C308	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C310	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C503	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
C504	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C505	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C506	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C507	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C508	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C509	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C510	NCB31EK-333X	C CAPACITOR	0.033uF 25V K
C515	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C551	NCF31CZ-224X	C CAPACITOR	0.22uF 16V Z
C552	NCF31CZ-224X	C CAPACITOR	0.22uF 16V Z
C553	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C554	NCF31CZ-224X	C CAPACITOR	0.22uF 16V Z
C555	NCF31CZ-224X	C CAPACITOR	0.22uF 16V Z
C561	NDC31HJ-390X	C CAPACITOR	39pF 50V J
C612	NCB31HK-272X	C CAPACITOR	2700pF 50V K
C613	NCB31HK-272X	C CAPACITOR	2700pF 50V K
C614	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C615	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C619	QETM1VM-228	E CAPACITOR	2200uF 35V M

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
C622	QETN1EM-108Z	E CAPACITOR	1000uF 25V M	R265	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C623	QETN1EM-108Z	E CAPACITOR	1000uF 25V M	R266	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C624	NCB31HK-102X	C CAPACITOR	1000pF 50V K	R267	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C626	QETN1EM-108Z	E CAPACITOR	1000uF 25V M	R268	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C627	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R269	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C629	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R270	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C630	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R271	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
C631	NCB31HK-102X	C CAPACITOR	1000pF 50V K	R272	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
C632	NCB31HK-102X	C CAPACITOR	1000pF 50V K	R273	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
C633	QETN1HM-107Z	E CAPACITOR	100uF 50V M	R274	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
C636	NCB31CK-105X	C CAPACITOR	1uF 16V K	R275	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
C637	NCB31CK-105X	C CAPACITOR	1uF 16V K	R276	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
C701	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R277	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C702	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R278	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
C711	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R279	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
C901	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R280	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
C902	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R281	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C903	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R282	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C904	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	R283	QRG01GJ-101	OMF RESISTOR	100Ω 1W J
C905	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R284	QRK126J-181X	UNF C RESISTOR	180Ω 1/2W J
C906	NCB20JK-225X	C CAPACITOR	2.2uF 6.3V K	R285	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C907	NDC31HJ-471X	C CAPACITOR	470pF 50V J	R286	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C908	QETN1AM-477Z	E CAPACITOR	470uF 10V M	R287	QRK126J-151X	UNF C RESISTOR	150Ω 1/2W J
C909	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R288	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
C910	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R289	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R002	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R290	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R003	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R291	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R004	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R292	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R005	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R293	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R006	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R294	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R007	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R295	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R008	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R296	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R009	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	R297	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R010	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	R298	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R011	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R313	QRK126J-331X	UNF C RESISTOR	330Ω 1/2W J
R101	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R315	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R102	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R316	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
R103	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R317	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R201	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R501	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R202	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R502	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R205	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	R503	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R206	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	R504	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R208	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R505	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J
R209	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R506	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R210	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R507	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R211	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R509	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R212	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R510	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
R213	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R511	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R214	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R512	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R215	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R513	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R216	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R514	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R217	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R515	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R218	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R516	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R220	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	R517	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R221	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	R518	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R222	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	R519	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R226	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	R520	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R227	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	R521	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R229	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	R523	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R232	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	R524	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R233	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	R525	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R234	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R526	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R235	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R527	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
R236	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R528	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R237	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R529	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
R238	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R530	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
R239	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R531	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R240	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R532	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R241	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R533	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R242	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R536	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R243	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R537	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R244	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R551	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J
R245	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R552	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J
R246	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R553	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R247	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R554	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R249	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R555	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J
R251	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	R556	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R253	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	R557	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J
R255	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	R558	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R258	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	R559	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R259	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	R560	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R260	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	R615	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R261	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	R616	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R262	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	R617	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R263	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	R620	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R264	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R621	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
				R622	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J

△Ref No.	Part No.	Part Name	Description	Local	△Ref No.	Part No.	Part Name	Description	Local
R625	NRSA63J-183X	MG RESISTOR	18kΩ	1/16W J	D551	FR105GT-T3	SI DIODE		
R629	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J	D552	FR105GT-T3	SI DIODE		
R630	NRSA63J-273X	MG RESISTOR	27kΩ	1/16W J	D553	FR105GT-T3	SI DIODE		
R631	NRSA63J-473X	MG RESISTOR	47kΩ	1/16W J	D582	MTZJ7.5B-T2	Z DIODE		
R632	NRSA63J-822X	MG RESISTOR	8.2kΩ	1/16W J	D583	MTZJ7.5S-T2	Z DIODE		
R635	NRSA63J-822X	MG RESISTOR	8.2kΩ	1/16W J	D584	FR105GT-T3	SI DIODE		
R637	NRSA63J-473X	MG RESISTOR	47kΩ	1/16W J	D901	D3SBA60	DIODE		
R638	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J	D902	FR107GT-T3	SI DIODE		
R639	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J	D904	FR105GT-T3	SI DIODE		
R640	NRSA63J-681X	MG RESISTOR	680Ω	1/16W J	D905	1SS133-T2	SI DIODE		
R641	NRSA63J-104X	MG RESISTOR	100kΩ	1/16W J	D906	MTZJ27B-T2	Z DIODE		
R642	NRSA63J-681X	MG RESISTOR	680Ω	1/16W J	D907	1SS133-T2	SI DIODE		
R643	NRSA63J-473X	MG RESISTOR	47kΩ	1/16W J	D910	MTZJ15B-T2	Z DIODE		
R644	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	D911	1SS133-T2	SI DIODE		
R645	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	D931	S1WB/A/60-4101	BRIDGE DIODE		
R702	NRSA63J-221X	MG RESISTOR	220Ω	1/16W J	D945	1SS133-T2	SI DIODE		
R703	NRSA63J-221X	MG RESISTOR	220Ω	1/16W J	D951	RU4AM-LFT2	SI DIODE		
R704	NRSA63J-221X	MG RESISTOR	220Ω	1/16W J	D952	RU4AM-LFT2	SI DIODE		
R705	NRSA63J-221X	MG RESISTOR	220Ω	1/16W J	D953	FR105GT-T3	SI DIODE		
R706	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J	D954	HER202G-FL	SI DIODE		
R707	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J	D956	FSF05A20	SI DIODE		
R708	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	D958	MTZJ33B-T2	Z DIODE		
R709	NRSA63J-222X	MG RESISTOR	2.2kΩ	1/16W J	D959	1SS133-T2	SI DIODE		
R710	NRSA63J-104X	MG RESISTOR	100kΩ	1/16W J	D981	1SS133-T2	SI DIODE		
					D983	1SS133-T2	SI DIODE		
L001	QQL244K-270Z	PEAKING COIL	27uH	K	C404	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J	
L002	QQL244K-100Z	PEAKING COIL	10uH	K	C405	QDC31HJ-820Z	C CAPACITOR	82pF 50V J	
L003	QQL244K-100Z	PEAKING COIL	10uH	K	C406	QETM1VM-108	E CAPACITOR	1000uF 35V M	
L101	QQL244K-4R7Z	PEAKING COIL	4.7uH	K	C408	QETN1VM-337Z	E CAPACITOR	330uF 35V M	
CN001	QGB1505J1-35	CONNECTOR	B-B (1-35)		C409	QFVF1HJ-474Z	MF CAPACITOR	0.47uF 50V J	
CN002	QGC2507C1-96	CONNECTOR	(1-96)		C410	QFVF1HJ-474Z	MF CAPACITOR	0.47uF 50V J	
CN003	QGB1506L1-16	CONNECTOR	B-B (1-16)		C411	QFLC2AJ-104Z	M CAPACITOR	0.1uF 100V J	
CN004	QGB1506L1-16	CONNECTOR	B-B (1-16)		C414	QCB31HK-682Z	C CAPACITOR	6800pF 50V K	
CN00B	QJK002-041614-E	SIN CR C-B WIRE			C415	QDC31HJ-470Z	C CAPACITOR	47pF 50V J	
J601	QNN0596-001	PIN JACK	AUDIO OUT		C461	QEZ0414-226	BP E CAPACITOR	22uF 50V M	
K001	NQR0129-004X	FERRITE BEADS			C462	QFN32DJ-152Z	M CAPACITOR	1500pF 200V J	
K101	NQR0389-003X	FERRITE BEADS			C463	QFN32DJ-152Z	M CAPACITOR	1500pF 200V J	
K102	NQR0389-003X	FERRITE BEADS			C464	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J	
K551	QQR0621-002Z	FERRITE BEADS			C465	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
K552	QQR0621-002Z	FERRITE BEADS			C466	QFP31HJ-272Z	PP CAPACITOR	2700pF 50V J	
K601	NQR0199-001X	FERRITE BEADS			C467	QFLC1HJ-102Z	M CAPACITOR	1000pF 50V J	
K602	NQR0199-001X	FERRITE BEADS			C468	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
LC101	NQR0431-001X	EMI FILTER	0.22uF 50V Z		C470	QCS31HJ-470Z	C CAPACITOR	47pF 50V J	
△TU001	QAU0276-002	TUNER			C471	QFLC1HJ-103Z	M CAPACITOR	0.01uF 50V J	
X101	QAX0773-001Z	CRYSTAL	18.432000MHz		C481	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
					C501	QCB32HK-331Z	C CAPACITOR	330pF 500V K	
					C502	QFN32DK-103	M CAPACITOR	0.01uF 200V K	
					C503	QFVF1HJ-224Z	MF CAPACITOR	0.22uF 50V J	
					C521	QFZ0122-112	MPP CAPACITOR	1100pF 1.8kV H	
					C522	QFZ0196-113	MPP CAPACITOR	0.011uF 1.5kV H	
					C523	QFN32DJ-393	M CAPACITOR	0.039uF 200V J	
					C524	QFP32JJ-223	PP CAPACITOR	0.022uF 630V J	
					C526	QFZ0197-204	MPP CAPACITOR	0.2uF 250V J	
					C527	QFZ0197-124	MPP CAPACITOR	0.12uF 250V J	
					C529	QFZ0197-154	MPP CAPACITOR	0.15uF 250V J	
					C530	QCB32HK-561Z	C CAPACITOR	560pF 500V K	
					C531	QFZ0194-534	MPP CAPACITOR	0.53uF 250V J	
					C532	QETM2CM-227	E CAPACITOR	220uF 160V M	
					C533	QETN2EM-475Z	E CAPACITOR	4.7uF 250V M	
					C541	QFVF1HJ-105Z	MF CAPACITOR	1uF 50V J	
					C551	QCB32HK-152Z	C CAPACITOR	1500pF 500V K	
					C552	QETN1CM-108Z	E CAPACITOR	1000uF 16V M	
					C553	QCB32HK-152Z	C CAPACITOR	1500pF 500V K	
					C554	QETN1CM-108Z	E CAPACITOR	1000uF 16V M	
					C556	QETN2EM-106Z	E CAPACITOR	10uF 250V M	
					C558	QETN1CM-477Z	E CAPACITOR	470uF 16V M	
					C581	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
					C582	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
					C583	QETN2AM-106Z	E CAPACITOR	10uF 100V M	
					C584	QETN1AM-227Z	E CAPACITOR	220uF 10V M	
					△C901	QFZ9072-473	MM CAPACITOR	0.047uF AC250V K	
					△C902	QFZ9072-104	MM CAPACITOR	0.1uF AC250V K	
					△C903	QFZ9072-473	MM CAPACITOR	0.047uF AC250V K	
					△C904	QCZ9054-472	C CAPACITOR	4700pF AC250V Z	
					△C905	QCZ9054-472	C CAPACITOR	4700pF AC250V Z	
					△C906	QCZ9054-472	C CAPACITOR	4700pF AC250V Z	
					C907	QEZ0649-227	E CAPACITOR	220uF 400V M	
					C908	QCB32HK-103	C CAPACITOR	0.01uF 500V K	
					C909	QCZ0340-391	C CAPACITOR	390pF 2kV K	
					C910	QETN1HM-476Z	E CAPACITOR	47uF 50V M	
					C911	QCB31HK-102Z	C CAPACITOR	1000pF 50V K	
					C912	QCZ0340-561	C CAPACITOR	560pF 2kV K	
					C914	QCB31HK-471Z	C CAPACITOR	470pF 50V K	
					C915	QFLC1HJ-104Z	M CAPACITOR	0.1uF 50V J	
					C916	QCB32HK-152Z	C CAPACITOR	1500pF 500V K	
					△C931	QCZ9054-472	C CAPACITOR	4700pF AC250V Z	

## POWER & DEF P.W. BOARD ASS'Y (SML-2302A-S2)

△Ref No.	Part No.	Part Name	Description	Local
IC401	LA78041	IC		
IC461	LM393P	IC		
IC901	STR-G9656-F3	IC		
△IC941	QAL0515-001	POWER TRANSF		
IC951	SE140N	IC		
IC961	PQ120RDA1SZ	IC		
Q461	RDN050N20	POWER MOS FET		
Q462	KTC3199/YG/-T	TRANSISTOR		
Q463	KTC3199/YG/-T	TRANSISTOR		
Q464	KTA1267/YG/-T	TRANSISTOR		
Q481	DTC124ESA-T	DIGI TRANSISTOR		
Q482	KTC3199/YG/-T	TRANSISTOR		
Q501	BSN304-T	MOS FET		
△Q521	2SC5904-RL	POW TRANSISTOR	H. OUT	
Q581	2SA1208/ST/Z1-T	TRANSISTOR		
Q582	DTC144ESA-T	DIGI TRANSISTOR		
Q583	KTC3199/YG/-T	TRANSISTOR		
Q941	KTC3199/YG/-T	TRANSISTOR		
Q942	KTC3199/YG/-T	TRANSISTOR		
D402	1SR35-400A-T2	SI DIODE		
D461	FR105GT-T3	SI DIODE		
D462	1SS133-T2	SI DIODE		
D463	1SS133-T2	SI DIODE		
D481	1SS133-T2	SI DIODE		
D501	1SS244-T2	SI DIODE		
D521	V11CA-C1	SI DIODE		
D522	FMV-3FU-F1	SI DIODE		
D523	MTZJ22B-T2	Z DIODE		
D525	FR105GT-T3	SI DIODE		
D541	FR105GT-T3	SI DIODE		
D542	MTZJ3.9B-T2	Z DIODE		

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
△C932	QCZ9054-472	C CAPACITOR	4700pF AC250V Z	R981	QRE141J-153Y	C RESISTOR	15kΩ 1/4W J
△C933	QCZ9054-472	C CAPACITOR	4700pF AC250V Z	R982	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J
C934	QE20632-226	E CAPACITOR	22uF 400V M	△R991	QRZ9046-825Z	C RESISTOR	8.2MΩ 1/2W K
C941	QTMN1CM-477Z	E CAPACITOR	470uF 16V M	R992	QRZ9046-105Z	C RESISTOR	1MΩ 1/2W K
C942	QETN1AM-337Z	E CAPACITOR	330uF 10V M				
C951	QE20203-227	E CAPACITOR	220uF 160V M	L461	QQR1195-001	CHOKE COIL	
C952	QE20255-228	E CAPACITOR	2200uF 16V M	L462	QQR1422-001	CHOKE COIL	
C953	QETN1CM-108Z	E CAPACITOR	1000uF 16V M	L521	QQLZ031-180	CHOKE COIL	18uH
C954	QETM1VM-228	E CAPACITOR	2200uF 35V M	L522	QQR1191-002	LINEARITY COIL	
C956	QETM1AM-338	E CAPACITOR	3300uF 10V M	L551	QQLZ026-540	COIL	54uH A)7%
C959	QFVF1HJ-684Z	MF CAPACITOR	0.68uF 50V J	L901	QQL401K-100Z	CHOKE COIL	10uH K
C960	QCZ0325-821	C CAPACITOR	820pF 2kV K	L902	QQL401K-100Z	CHOKE COIL	10uH K
C968	QETM1AM-338	E CAPACITOR	3300uF 10V M	△L903	QQR1200-001	CHOKE COIL	
△C991	QCZ9079-222	C CAPACITOR	2200pF AC250V M	L941	QQL26AM-4R7Z	CHOKE COIL	4.7uH M
△C993	QCZ9079-471	C CAPACITOR	470pF AC250V K	L942	QQL26AK-220Z	CHOKE COIL	22uH K
				L951	QQLZ026-460	COIL	46uH A)7%
R401	QRE141J-562Y	C RESISTOR	5.6kΩ 1/4W J	T501	QQR1111-001	LINEARITY COIL	
R402	QRE141J-562Y	C RESISTOR	5.6kΩ 1/4W J	△T901	QQS0258-001	SW TRANSF	
R403	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J				
R404	QRX01GJ-1R0	MF RESISTOR	1Ω 1W J	CN003	QGB1506M1-16	CONNECTOR	B-B (1-16)
R405	QRL029J-151	OMF RESISTOR	150Ω 2W J	CN004	QGB1506M1-16	CONNECTOR	B-B (1-16)
R406	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	CN0HV	QGG8005C3-05	CONNECTOR	(1-5)
R407	QRX01GJ-1R5	MF RESISTOR	1.5Ω 1W J	△CP931	QMFZ052-2R0-E	FUSE	2A AC250V
R408	QRX01GJ-1R5	MF RESISTOR	1.5Ω 1W J	△CP951	ICP-N75-T	IC PROTECTOR	2.7A
R409	QRE141J-823Y	C RESISTOR	82kΩ 1/4W J	△CP952	ICP-N75-T	IC PROTECTOR	2.7A
R410	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	△CP954	ICP-N75-T	IC PROTECTOR	2.7A
R461	QRG029J-820	OMF RESISTOR	82Ω 2W J	K401	QQR0621-002Z	FERRITE BEADS	
R462	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J	K522	QQR1114-001Z	FERRITE BEADS	
R463	QRE141J-682Y	C RESISTOR	6.8kΩ 1/4W J	K523	QQR1114-001Z	FERRITE BEADS	
R464	QRX01GJ-2R7	MF RESISTOR	2.7Ω 1W J	K524	QQR1114-001Z	FERRITE BEADS	
R468	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	K901	QQR1113-001Z	FERRITE BEADS	
R469	QRE141J-272Y	C RESISTOR	2.7kΩ 1/4W J	K952	QQR0621-002Z	FERRITE BEADS	
R471	QRE141J-391Y	C RESISTOR	390Ω 1/4W J	K953	QQR0621-002Z	FERRITE BEADS	
R472	QRA14CF-1002Y	CMF RESISTOR	10kΩ 1/4W F	K955	QQR0621-002Z	FERRITE BEADS	
R473	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J	△LF901	QQR1095-001	LINE FILTER	
R474	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	△PC901	PC123Y22FZ	PHOTO COUPLER	
R475	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	△RY941	QSK0099-001	RELAY	
R476	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	△TH901	QAD0121-9R0	P THERMISTOR	9Ω
R477	QRE141J-563Y	C RESISTOR	56kΩ 1/4W J				
R478	QRE141J-333Y	C RESISTOR	33kΩ 1/4W J				
R481	QRE141J-274Y	C RESISTOR	270kΩ 1/4W J				
R482	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J				
R501	QRE141J-471Y	C RESISTOR	470Ω 1/4W J				
R502	QRE141J-123Y	C RESISTOR	12kΩ 1/4W J				
R503	QRE121J-152Y	C RESISTOR	1.5kΩ 1/2W J				
R504	QRL039J-222	OMF RESISTOR	2.2kΩ 3W J				
R505	QRL039J-222	OMF RESISTOR	2.2kΩ 3W J	IC3201	TDA6111Q/N4	IC	
R506	QRE121J-5R6Y	C RESISTOR	5.6Ω 1/2W J	IC3202	TDA6111Q/N4	IC	
R521	QRE121J-471Y	C RESISTOR	470Ω 1/2W J	IC3203	TDA6111Q/N4	IC	
R522	QRE141J-333Y	C RESISTOR	33kΩ 1/4W J				
R523	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	Q3104	2SC3928A/QR/-X	TRANSISTOR	
R524	QRC121K-152Z	COMP RESISTOR	1.5kΩ 1/2W K	Q3105	2SC1627A/OY/-T	SI TRANSISTOR	
R525	QRL039J-103	OMF RESISTOR	10kΩ 3W J	Q3108	2SA2005/DE/	POW TRANSISTOR	
R541	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	Q3109	2SC5511/DE/	POW TRANSISTOR	
R542	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	Q3301	2SA1530A/QR/-X	TRANSISTOR	
R543	QRE121J-272Y	C RESISTOR	2.7kΩ 1/2W J	Q3303	2SA1530A/QR/-X	TRANSISTOR	
R551	QRT039J-3R3	MF RESISTOR	3.3Ω 3W J	Q3304	2SC3928A/QR/-X	TRANSISTOR	
R552	QRT039J-3R3	MF RESISTOR	3.3Ω 3W J				
R581	QRF154K-4R7	UNF WW RESISTOR	4.7Ω 15W K	D3102	1SS355-X	SI DIODE	
R582	QRE141J-681Y	C RESISTOR	680Ω 1/4W J	D3103	FR105GT-T3	SI DIODE	
R583	QRE121J-682Y	C RESISTOR	6.8kΩ 1/2W J	D3104	FR105GT-T3	SI DIODE	
R584	QRE141J-183Y	C RESISTOR	18kΩ 1/4W J	D3201	FR105SGT-T2	SI DIODE	
R585	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	D3202	FR105SGT-T2	SI DIODE	
R586	QRA14CF-7501Y	CMF RESISTOR	7.5kΩ 1/4W F	D3203	FR105SGT-T2	SI DIODE	
R587	QRA14CF-2101Y	CMF RESISTOR	2.1kΩ 1/4W F	D3204	FR105GT-T3	SI DIODE	
R588	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	D3205	1N4003SG-T2	SI DIODE	
△R591	QRZ9017-4R7	FUSI RESISTOR	4.7Ω 1/4W J	D3206	1N4003SG-T2	SI DIODE	
R901	QRE121J-331Y	C RESISTOR	330Ω 1/2W J	D3207	1N4003SG-T2	SI DIODE	
R902	QRF054K-3R3	UNF WW RESISTOR	3.3Ω 5W K	D3208	MA8062/M/-X	Z DIODE	
R903	QRF104K-3R9	UNF WW RESISTOR	3.9Ω 10W K	D3209	UDZS13B-X	Z DIODE	
R904	QRL039J-683	OMF RESISTOR	68kΩ 3W J	D3210	UDZS13B-X	Z DIODE	
R905	QRE121J-474Y	C RESISTOR	470kΩ 1/2W J	D3301	1SS355-X	SI DIODE	
R906	QRE121J-474Y	C RESISTOR	470kΩ 1/2W J	D3302	1SS355-X	SI DIODE	
R908	QRL039J-823	OMF RESISTOR	82kΩ 3W J	D3303	1SS355-X	SI DIODE	
R909	QRL039J-823	OMF RESISTOR	82kΩ 3W J	D3306	UDZS3.6B-X	Z DIODE	
R910	QRE121J-680Y	C RESISTOR	68Ω 1/2W J				
R911	QRE121J-332Y	C RESISTOR	3.3kΩ 1/2W J	C3106	QETN1HM-335Z	E CAPACITOR	3.3uF 50V M
R914	QRZ0237-R10	UNF WW RESISTOR	0.1Ω	C3107	QETN1CM-107Z	E CAPACITOR	100uF 16V M
R915	QRE121J-681Y	C RESISTOR	680Ω 1/2W J	C3110	QETN2CM-106Z	E CAPACITOR	10uF 160V M
R916	QRE121J-152Y	C RESISTOR	1.5kΩ 1/2W J	C3111	QCB32HK-472Z	C CAPACITOR	4700pF 500V K
R944	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	C3113	QETN2CM-106Z	E CAPACITOR	10uF 160V M
R945	QRE141J-563Y	C RESISTOR	56kΩ 1/4W J	C3114	QCB32HK-472Z	C CAPACITOR	4700pF 500V K
R946	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	C3116	QETN1AM-107Z	E CAPACITOR	100uF 10V M
R949	QRE141J-334Y	C RESISTOR	330kΩ 1/4W J	C3117	QETN1AM-107Z	E CAPACITOR	100uF 10V M
R951	QRE121J-222Y	C RESISTOR	2.2kΩ 1/2W J	C3118	QEH1AM-337Z	E CAPACITOR	330uF 10V M
R952	QRL039J-223	OMF RESISTOR	22kΩ 3W J	C3120	NDC31HJ-561X	C CAPACITOR	560pF 50V J
R953	QRT039J-R33	MF RESISTOR	0.33Ω 3W J	C3201	NDC31HJ-8R0X	C CAPACITOR	8pF 50V J

### CRT SOCKET P.W. BOARD ASS'Y (SML-3302A-U2)

△Ref No.	Part No.	Part Name	Description Local
C3202	NDC31HJ-8R0X	C CAPACITOR	8pF 50V J
C3203	NDC31HJ-8R0X	C CAPACITOR	8pF 50V J
C3204	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3205	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3206	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3207	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C3208	QEHR1VM-476Z	E CAPACITOR	47uF 35V M
C3209	QEHR1VM-476Z	E CAPACITOR	47uF 35V M
C3210	QFKC2EK-104Z	MM CAPACITOR	0.1uF 250V K
C3211	QFKC2EK-104Z	MM CAPACITOR	0.1uF 250V K
C3212	QFKC2EK-104Z	MM CAPACITOR	0.1uF 250V K
C3213	NDC31HJ-181X	C CAPACITOR	180pF 50V J
C3214	NDC31HJ-181X	C CAPACITOR	180pF 50V J
C3215	NDC31HJ-181X	C CAPACITOR	180pF 50V J
C3216	QETN1CM-227Z	E CAPACITOR	220uF 16V M
C3218	QETM2EM-336	E CAPACITOR	33uF 250V M
C3219	QFZ0097-223	MM CAPACITOR	0.022uF 1.25KV M
C3221	QETN2EM-106Z	E CAPACITOR	10uF 250V M
C3222	QETN2EM-106Z	E CAPACITOR	10uF 250V M
C3223	QEHR2EM-106Z	E CAPACITOR	10uF 250V M
C3224	QETN2EM-106Z	E CAPACITOR	10uF 250V M
C3225	NDC31HJ-151X	C CAPACITOR	150pF 50V J
C3303	NCB31CK-563X	C CAPACITOR	0.056uF 16V K
R3103	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R3109	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R3112	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R3114	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R3115	NRSA63J-560X	MG RESISTOR	56Ω 1/16W J
R3116	QRG01GJ-101	OMF RESISTOR	100Ω 1W J
R3117	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R3122	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R3123	QRE121J-563Y	C RESISTOR	56kΩ 1/2W J
R3124	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
R3125	QRE121J-563Y	C RESISTOR	56kΩ 1/2W J
R3126	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
R3127	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R3128	NRSA63J-390X	MG RESISTOR	39Ω 1/16W J
R3129	QRE121J-2R7Y	C RESISTOR	2.7Ω 1/2W J
R3130	QRE121J-2R7Y	C RESISTOR	2.7Ω 1/2W J
R3131	NRSA63J-390X	MG RESISTOR	39Ω 1/16W J
R3132	NRSA63J-121X	MG RESISTOR	120Ω 1/16W J
R3133	QRL029J-681	OMF RESISTOR	680Ω 2W J
△R3134	QRZ9021-561	FUSI RESISTOR	560Ω 1W J
R3201	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R3202	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R3203	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R3208	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J
R3209	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R3218	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R3219	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R3220	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R3222	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R3223	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R3224	QRL029J-104-F	OMF RESISTOR	100kΩ 2W J
R3225	QRL029J-104-F	OMF RESISTOR	100kΩ 2W J
R3226	QRL029J-104-F	OMF RESISTOR	100kΩ 2W J
R3227	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R3228	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R3229	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R3230	QRZ0107-152Z	C RESISTOR	1.5kΩ 1/2W K
R3231	QRZ0107-152Z	C RESISTOR	1.5kΩ 1/2W K
R3232	QRZ0107-152Z	C RESISTOR	1.5kΩ 1/2W K
R3234	QRZ0107-474Z	C RESISTOR	470kΩ 1/2W K
R3235	QRZ0107-102Z	C RESISTOR	1kΩ 1/2W K
R3236	QRZ0107-105Z	C RESISTOR	1MΩ 1/2W K
R3237	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R3239	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R3240	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R3241	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R3242	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R3301	QRE121J-474Y	C RESISTOR	470kΩ 1/2W J
R3302	QRE121J-474Y	C RESISTOR	470kΩ 1/2W J
R3303	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R3304	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R3305	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R3306	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R3308	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R3311	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R3312	NRSA63J-120X	MG RESISTOR	12Ω 1/16W J
R3313	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
L3204	QQL26AJ-102Z	PEAKING COIL	1mH J
CN300G	QJK002-063231-E	SIN CR C-B WIRE	
CN300R	QJB003-093626-E	SIN ID C-B WIRE	
CN30E1	QGG8005C3-01	CONNECTOR	(1-1)

△Ref No.	Part No.	Part Name	Description Local
CN30SC	QGG0017C1-01Z	CONNECTOR	(1-1)
K3101	QQR1114-001Z	FERRITE BEADS	
K3103	QQR1114-001Z	FERRITE BEADS	
K3104	QQR1114-001Z	FERRITE BEADS	
K3105	QQR0621-002Z	FERRITE BEADS	
K3202	QQR1113-001Z	FERRITE BEADS	
SG3201	QAF0056-501Z	SURGE ABSORBER	500V M
SG3202	QAF0056-501Z	SURGE ABSORBER	500V M
SG3203	QAF0056-501Z	SURGE ABSORBER	500V M
△SK3001	QNZ0536-001	CRT SOCKET	

## SIDE CONTROL P.W. BOARD ASS'Y (SML-8131A-U2)

△Ref No.	Part No.	Part Name	Description Local
C8101	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C8102	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C8103	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C8104	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C8131	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C8132	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C8133	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
R8101	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J
R8102	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R8103	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R8111	QRE121J-101Y	C RESISTOR	100Ω 1/2W J
R8112	QRE121J-101Y	C RESISTOR	100Ω 1/2W J
R8113	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R8114	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R8133	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
L8111	QQL244K-5R6Z	PEAKING COIL	5.6uH K
L8112	QQL244K-5R6Z	PEAKING COIL	5.6uH K
L8131	QQL244K-270Z	PEAKING COIL	27uH K
L8132	QQL244K-270Z	PEAKING COIL	27uH K
J8111	QMS3001-C01	3.5 JACK	HEADPHONE
J8131	QNN0591-001	PIN JACK	EXT-4(V/L/R)
J8132	QND0084-001	S JACK	EXT-4(S)
K8111	NQR0129-004X	FERRITE BEADS	
K8131	NQR0129-004X	FERRITE BEADS	
S8101	QSW0619-003Z	TACT SWITCH	CH UP
S8102	QSW0619-003Z	TACT SWITCH	MENU
S8103	QSW0619-003Z	TACT SWITCH	CH DOWN

## FRONT CONTROL P.W. BOARD ASS'Y (SML-8301A-U2)

△Ref No.	Part No.	Part Name	Description Local
IC8851	GP1UM281QKVF	IR DETECT UNIT	
Q8801	UN2212-X	DIGI TRANSISTOR	
D8801	LH22440-T16	LED	POWER
C8851	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C8852	QETN1CM-107Z	E CAPACITOR	100uF 16V M
△C8901	QFZ9072-474	MM CAPACITOR	0.47uF AC250V K
R8801	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R8802	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R8804	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R8851	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R8852	QRE121J-470Y	C RESISTOR	47Ω 1/2W J
CN800W	WJK0200-002A-E	E-SI C WIRE C-B	
△F8901	QMF5AD2-3R15-J1	FUSE	3.15A AC250V
△LF8901	QQR1095-001	LINE FILTER	
△S8901	QSW0824-001	PUSH SWITCH	POWER



# AV JACK P.W. BOARD ASS'Y (SML0J301A-U2)

△Ref No.	Part No.	Part Name	Description	Local
D0101	UDZS5.6B-X	Z DIODE	1.5kΩ 1/10W J	
D0102	UDZS5.6B-X	Z DIODE	1.5kΩ 1/10W J	
D0103	UDZS5.6B-X	Z DIODE	1.5kΩ 1/10W J	
D0104	UDZS5.6B-X	Z DIODE	1.5kΩ 1/10W J	
D0115	UDZS5.6B-X	Z DIODE	1.5kΩ 1/10W J	
D0116	UDZS5.6B-X	Z DIODE	1.5kΩ 1/10W J	
D0117	UDZS5.6B-X	Z DIODE	1.5kΩ 1/10W J	
D0118	UDZS5.6B-X	Z DIODE	1.5kΩ 1/10W J	
D0119	UDZS5.6B-X	Z DIODE	1.5kΩ 1/10W J	
D0121	UDZS5.6B-X	Z DIODE	1.5kΩ 1/10W J	
C0101	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C0102	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C0103	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C0104	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C0105	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C0106	NDC31HJ-221X	C CAPACITOR	220pF 50V J	
C0107	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C0108	NDC31HJ-221X	C CAPACITOR	220pF 50V J	
C0109	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C0110	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
C0111	NCB11EK-104X	C CAPACITOR	0.1uF 25V K	
R0101	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R0102	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R0103	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R0104	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R0105	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R0106	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R0107	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R0108	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R0109	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R0203	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R0204	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
R0205	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	
CN0001	QGB1505K1-35	CONNECTOR	B-B (1-35)	
J0001	QNZ0465-001	21P CONNECTOR	EXT-3	
J0002	QNZ0463-001	21P CONNECTOR	EXT-1/EXT-2	
K0101	NQR0129-004X	FERRITE BEADS		
K0102	NQR0129-004X	FERRITE BEADS		
K0103	NQR0129-004X	FERRITE BEADS		

# 100HZ P.W. BOARD ASS'Y (SML0Z301A-U2)

△Ref No.	Part No.	Part Name	Description	Local
IC001	SDA5550M-QB	IC(MICRO C ROM)		
IC002	S-80828CNNB-G-W	IC		
IC003	LP62S2048AX7LTF	IC		
IC005	39VF0207CNHE	IC		
IC191	PQ2L3252MS-X	IC		
IC201	VSP9402A-VK-B13	IC		
IC301	DDP3315C-QA-G3	IC		
IC901	R1170H181B-X	IC		
IC902	MM1563DF-X	IC		
IC903	MM1565AF-X	IC		
Q001	2SC3928A/QR/-X	TRANSISTOR		
Q002	2SK3019-X	MOS FET		
Q003	2SK3019-X	MOS FET		
Q202	2SA1530A/QR/-X	TRANSISTOR		
Q203	2SA1530A/QR/-X	TRANSISTOR		
Q301	2SA1530A/QR/-X	TRANSISTOR		
Q302	2SC3928A/QR/-X	TRANSISTOR		
Q304	2SC4672/PQ/-W	POW TRANSISTOR		
Q305	2SA1530A/QR/-X	TRANSISTOR		
Q306	2SA1530A/QR/-X	TRANSISTOR		
Q307	2SA1530A/QR/-X	TRANSISTOR		
Q308	2SC3928A/QR/-X	TRANSISTOR		
QA001	UMX1N-W	PAIR TRANSISTOR		
QA002	UMX1N-W	PAIR TRANSISTOR		
QA301	UMX1N-W	PAIR TRANSISTOR		
QA302	UMT1N-W	PAIR TRANSISTOR		
D001	1SS355-X	SI DIODE		
D002	1SS355-X	SI DIODE		
D003	UDZS6.8B-X	Z DIODE		
D006	UDZS3.9B-X	Z DIODE		
D007	UDZS3.9B-X	Z DIODE		
D301	DA221-X	DIODE ARRAY		

△Ref No.	Part No.	Part Name	Description	Local
D302	DA221-X	DIODE ARRAY		
D303	DA221-X	DIODE ARRAY		
D304	DA221-X	DIODE ARRAY		
D305	1SS355-X	SI DIODE		
D306	DA221-X	DIODE ARRAY		
D307	UDZS3.9B-X	Z DIODE		
D308	UDZS3.3B-X	Z DIODE		
C001	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
C002	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C003	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C004	NDC31HJ-330X	C CAPACITOR	33pF 50V J	
C005	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C006	NDC31HJ-330X	C CAPACITOR	33pF 50V J	
C007	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C009	NEHL1CM-476X	E CAPACITOR	47uF 16V M	
C010	NEHL1CM-107X	E CAPACITOR	100uF 16V M	
C011	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C012	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C013	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C014	NCB31EK-333X	C CAPACITOR	0.033uF 25V K	
C016	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C017	NEHL1HM-106X	E CAPACITOR	10uF 50V M	
C019	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C020	NEHL1CM-476X	E CAPACITOR	47uF 16V M	
C021	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C022	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C023	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C024	NEHL1CM-476X	E CAPACITOR	47uF 16V M	
C026	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C027	NEHL1CM-476X	E CAPACITOR	47uF 16V M	
C029	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C030	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C031	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C032	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
C035	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C191	NEHL1CM-107X	E CAPACITOR	100uF 16V M	
C192	NCB20JK-225X	C CAPACITOR	2.2uF 6.3V K	
C193	NCB20JK-225X	C CAPACITOR	2.2uF 6.3V K	
C194	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C195	NEHL1CM-107X	E CAPACITOR	100uF 16V M	
C196	NCB20JK-225X	C CAPACITOR	2.2uF 6.3V K	
C197	NEHL1CM-107X	E CAPACITOR	100uF 16V M	
C201	NDC31HJ-331X	C CAPACITOR	330pF 50V J	
C202	NDC31HJ-331X	C CAPACITOR	330pF 50V J	
C203	NDC31HJ-331X	C CAPACITOR	330pF 50V J	
C205	NCB31HK-473X	C CAPACITOR	0.047uF 50V K	
C206	NCB31HK-473X	C CAPACITOR	0.047uF 50V K	
C207	NCB31HK-473X	C CAPACITOR	0.047uF 50V K	
C208	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C209	NCB31HK-473X	C CAPACITOR	0.047uF 50V K	
C210	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C211	NCB31HK-473X	C CAPACITOR	0.047uF 50V K	
C212	NCB31HK-473X	C CAPACITOR	0.047uF 50V K	
C213	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C214	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	
C215	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C219	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C220	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C221	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C222	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C223	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C224	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C225	NDC31HJ-330X	C CAPACITOR	33pF 50V J	
C226	NDC31HJ-330X	C CAPACITOR	33pF 50V J	
C227	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C228	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C229	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C230	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C231	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C301	NEHL1HM-105X	E CAPACITOR	1uF 50V M	
C303	NDC31HJ-180X	C CAPACITOR	18pF 50V J	
C304	NDC31HJ-180X	C CAPACITOR	18pF 50V J	
C305	NEHL1HM-105X	E CAPACITOR	1uF 50V M	
C306	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C307	NDC31HJ-561X	C CAPACITOR	560pF 50V J	
C308	NEHL1HM-105X	E CAPACITOR	1uF 50V M	
C309	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	
C311	NDC31HJ-150X	C CAPACITOR	15pF 50V J	
C312	NCB31HK-562X	C CAPACITOR	5600pF 50V K	
C313	NCB31HK-333X	C CAPACITOR	0.033uF 50V K	
C314	NCB31HK-333X	C CAPACITOR	0.033uF 50V K	
C315	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
C316	NCB30JK-105X	C CAPACITOR	1uF 6.3V K	
C319	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C320	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C321	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
C322	NEHL1HM-335X	E CAPACITOR	3.3uF 50V M	R080	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C323	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R081	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C324	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	R083	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
C325	NEHL1CM-106X	E CAPACITOR	10uF 16V M	R084	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
C329	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R085	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
C330	NEHL1CM-106X	E CAPACITOR	10uF 16V M	R086	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C331	NCB31HK-682X	C CAPACITOR	6800pF 50V K	R087	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
C332	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	R088	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
C333	NEHL1CM-106X	E CAPACITOR	10uF 16V M	R089	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
C334	NDC31HJ-561X	C CAPACITOR	560pF 50V J	R092	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C335	NDC31HJ-561X	C CAPACITOR	560pF 50V J	R093	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
C336	NDC31HJ-561X	C CAPACITOR	560pF 50V J	R094	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C338	NDC31HJ-102X	C CAPACITOR	1000pF 50V J	R101	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
C901	NEHL1CM-106X	E CAPACITOR	10uF 16V M	R102	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
C902	NEHL1CM-106X	E CAPACITOR	10uF 16V M	R105	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C903	NCB10JK-106X	C CAPACITOR	10uF 6.3V K	R111	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C904	NEHL1CM-106X	E CAPACITOR	10uF 16V M	R114	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C905	NEHL1CM-106X	E CAPACITOR	10uF 16V M	R201	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
C906	NCB20JK-225X	C CAPACITOR	2.2uF 6.3V K	R202	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
C907	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	R203	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
C908	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	R207	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
C909	NCB20JK-225X	C CAPACITOR	2.2uF 6.3V K	R208	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
C910	NDC31HJ-471X	C CAPACITOR	470pF 50V J	R209	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
C911	NEHL1CM-106X	E CAPACITOR	10uF 16V M	R210	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
C912	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	R211	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
C913	NCB20JK-225X	C CAPACITOR	2.2uF 6.3V K	R212	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
C914	NDC31HJ-471X	C CAPACITOR	470pF 50V J	R213	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
C915	NEHL1CM-107X	E CAPACITOR	100uF 16V M	R214	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C916	NEHL1CM-106X	E CAPACITOR	10uF 16V M	R215	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C917	NEHL1CM-106X	E CAPACITOR	10uF 16V M	R216	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C918	NEHL1CM-106X	E CAPACITOR	10uF 16V M	R217	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R001	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R218	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R002	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	R219	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R003	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R221	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R004	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R222	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R008	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R223	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R009	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R224	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R010	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R227	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R013	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R231	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R014	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R232	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R015	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R233	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R016	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R301	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R022	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R302	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R023	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R303	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R026	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R304	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R027	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R305	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R028	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R306	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R029	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R309	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R030	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R310	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R031	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R311	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R032	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R314	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R036	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R315	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R037	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R318	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J
R038	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R319	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R039	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R320	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R040	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	R321	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R041	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R322	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R042	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R323	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R043	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R324	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R045	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R325	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
R046	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R326	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R047	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	R327	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R048	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	R328	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R049	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R329	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R050	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	R330	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R051	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	R331	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R053	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R332	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R054	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R333	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R055	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	R334	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R057	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R336	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R060	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R337	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R061	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R338	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R062	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R339	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R063	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R341	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R064	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R342	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
R065	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R343	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
R066	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	R344	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R068	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R345	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R069	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R346	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
R071	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R347	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R072	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R348	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R074	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R349	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
R075	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R350	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R076	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R351	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R077	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R352	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R078	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R353	NRSA63J-271X	MG RESISTOR	270Ω 1/16W J
				R354	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J

△Ref No.	Part No.	Part Name	Description Local
R355	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R357	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R358	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
R359	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R360	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R362	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R901	NRS12BJ-101W	MG RESISTOR	100Ω 1/2W J
R902	NRS12BJ-101W	MG RESISTOR	100Ω 1/2W J
R904	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R905	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
RA001	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W J x4
RA002	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W J x4
RA003	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W J x4
RA004	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W J x4
RA005	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W J x4
RA006	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W J x4
RA007	NRZ0040-0R0X	NET RESISTOR	0Ω 1/16W J x4
L001	NQL092K-4R7X	COIL	4.7uH K
L002	NQL092K-4R7X	COIL	4.7uH K
L003	NQL092K-4R7X	COIL	4.7uH K
L004	NQL092K-4R7X	COIL	4.7uH K
L005	NQL092K-4R7X	COIL	4.7uH K
L006	NQL092K-4R7X	COIL	4.7uH K
L007	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
L008	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
L009	NQL092K-8R2X	P COIL	8.2uH K
L201	NQL092K-3R3X	COIL	3.3uH K
L202	NQL092K-3R3X	COIL	3.3uH K
L203	NQL092K-3R3X	COIL	3.3uH K
L301	NQL914K-100X	COIL	10uH K
L901	NQL914K-100X	COIL	10uH K
L902	NQL914K-100X	COIL	10uH K
L903	NQL914K-100X	COIL	10uH K
L904	NQL914K-100X	COIL	10uH K
K001	NQR0129-004X	FERRITE BEADS	
K002	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
K901	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
K902	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
K905	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
K906	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
K907	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
K908	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
LC001	NQR0415-003X	EMI FILTER	0.47uF 16V M
LC002	NQR0415-003X	EMI FILTER	0.47uF 16V M
LC003	NQR0415-003X	EMI FILTER	0.47uF 16V M
LC004	NQR0415-003X	EMI FILTER	0.47uF 16V M
X001	NAX0618-001X	CRYSTAL	
X201	NAX0661-001X	CRYSTAL	
X301	NAX0643-001X	CRYSTAL	

# PRINTED WIRING BOARD PARTS LIST [AV-28H5SK]

## MAIN P.W. BOARD ASS'Y (SML-1932A-U2)

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
IC101	MSP3415GQGB8V3M	IC		C105	QETN1HM-106Z	E CAPACITOR	10uF 50V M
IC201	CXA2089Q-X	IC		C106	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
IC501	LM324D-X	IC		C107	QETN1CM-107Z	E CAPACITOR	100uF 16V M
IC551	LA6515	IC		C108	QETN1HM-105Z	E CAPACITOR	1uF 50V M
IC601	AN5277	IC		C109	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
IC701	ATE32-28H5SK	IC	(SERVICE)	C110	QETN1HM-106Z	E CAPACITOR	10uF 50V M
IC901	AN78L08-T	IC		C111	NCB21CK-105X	C CAPACITOR	1uF 16V K
IC902	MM1565AF-X	IC		C112	NCB21CK-105X	C CAPACITOR	1uF 16V K
IC903	L7809CP	IC		C113	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
Q002	2SC3928A/QR/-X	TRANSISTOR		C114	QETN1HM-106Z	E CAPACITOR	10uF 50V M
Q101	UN2213-X	DIGI TRANSISTOR		C115	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
Q201	2SC3928A/QR/-X	TRANSISTOR		C116	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
Q202	2SC3928A/QR/-X	TRANSISTOR		C117	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q207	UN2226-X	DIGI TRANSISTOR		C118	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q210	2SA1530A/QR/-X	TRANSISTOR		C119	NDC31HJ-2R0X	C CAPACITOR	2pF 50V J
Q211	UN2226-X	DIGI TRANSISTOR		C120	NDC31HJ-2R0X	C CAPACITOR	2pF 50V J
Q212	2SA1530A/QR/-X	TRANSISTOR		C121	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q213	UN2226-X	DIGI TRANSISTOR		C122	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
Q214	UN2226-X	DIGI TRANSISTOR		C123	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
Q215	KTA1267/YG/-T	TRANSISTOR		C124	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
Q216	2SC3928A/QR/-X	TRANSISTOR		C201	QETN1HM-106Z	E CAPACITOR	10uF 50V M
Q217	KTC3199/YG/-T	TRANSISTOR		C202	QETN1HM-106Z	E CAPACITOR	10uF 50V M
Q219	2SC3928A/QR/-X	TRANSISTOR		C203	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q305	KTC3199/YG/-T	TRANSISTOR		C204	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
Q501	2SC3928A/QR/-X	TRANSISTOR		C205	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
Q502	2SC3928A/QR/-X	TRANSISTOR		C206	QETN1HM-106Z	E CAPACITOR	10uF 50V M
Q604	2SA1530A/QR/-X	TRANSISTOR		C207	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
Q605	2SC3928A/QR/-X	TRANSISTOR		C209	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
Q606	2SC3928A/QR/-X	TRANSISTOR		C210	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q609	2SA1530A/QR/-X	TRANSISTOR		C213	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
Q610	UN2226-X	DIGI TRANSISTOR		C215	QETN1HM-106Z	E CAPACITOR	10uF 50V M
Q611	UN2226-X	DIGI TRANSISTOR		C216	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
Q701	2SA1530A/QR/-X	TRANSISTOR		C220	QETN1HM-106Z	E CAPACITOR	10uF 50V M
Q702	2SC3928A/QR/-X	TRANSISTOR		C221	QETN1HM-106Z	E CAPACITOR	10uF 50V M
D201	UDZS12B-X	Z DIODE		C222	QETN1HM-106Z	E CAPACITOR	10uF 50V M
D202	UDZS12B-X	Z DIODE		C223	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
D203	UDZS12B-X	Z DIODE		C224	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
D204	UDZS12B-X	Z DIODE		C225	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D205	UDZS12B-X	Z DIODE		C226	QETN1HM-106Z	E CAPACITOR	10uF 50V M
D206	UDZS12B-X	Z DIODE		C227	QETN1HM-106Z	E CAPACITOR	10uF 50V M
D207	UDZS12B-X	Z DIODE		C228	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D208	UDZS12B-X	Z DIODE		C229	QETN1HM-106Z	E CAPACITOR	10uF 50V M
D209	UDZS12B-X	Z DIODE		C230	QENC1EM-106Z	BP E CAPACITOR	10uF 25V M
D210	UDZS12B-X	Z DIODE		C231	QENC1EM-106Z	BP E CAPACITOR	10uF 25V M
D211	UDZS12B-X	Z DIODE		C232	QETN1CM-107Z	E CAPACITOR	100uF 16V M
D212	UDZS12B-X	Z DIODE		C233	QETN1CM-107Z	E CAPACITOR	100uF 16V M
D213	UDZS15B-X	Z DIODE		C234	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D214	UDZS15B-X	Z DIODE		C235	QETN1CM-107Z	E CAPACITOR	100uF 16V M
D501	1SS355-X	SI DIODE		C236	QETN1CM-477Z	E CAPACITOR	470uF 16V M
D502	1SS355-X	SI DIODE		C237	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
D503	1SS355-X	SI DIODE		C238	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
D504	1SS355-X	SI DIODE		C239	QETN1CM-477Z	E CAPACITOR	470uF 16V M
D604	1SS355-X	SI DIODE		C303	QETN1CM-227Z	E CAPACITOR	220uF 16V M
D605	1SS355-X	SI DIODE		C304	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D606	1SS355-X	SI DIODE		C308	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
D607	1SS355-X	SI DIODE		C310	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
D701	UDZS5.6B-X	Z DIODE	1.5kΩ 1/10W J	C503	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
D702	UDZS5.6B-X	Z DIODE	1.5kΩ 1/10W J	C504	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
D703	UDZS5.6B-X	Z DIODE	1.5kΩ 1/10W J	C505	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
D704	UDZS5.6B-X	Z DIODE	1.5kΩ 1/10W J	C506	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
D705	1SS355-X	SI DIODE		C507	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
D981	1SS355-X	SI DIODE		C508	QETN1CM-107Z	E CAPACITOR	100uF 16V M
D982	1SS355-X	SI DIODE		C509	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
D983	1SS355-X	SI DIODE		C510	NCB31EK-333X	C CAPACITOR	0.033uF 25V K
C001	NCB31HK-222X	C CAPACITOR	2200pF 50V K	C515	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C002	QETN1HM-106Z	E CAPACITOR	10uF 50V M	C551	NCF31CZ-224X	C CAPACITOR	0.22uF 16V Z
C004	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C552	NCF31CZ-224X	C CAPACITOR	0.22uF 16V Z
C005	QETN1CM-108Z	E CAPACITOR	1000uF 16V M	C553	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C006	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C554	NCF31CZ-224X	C CAPACITOR	0.22uF 16V Z
C007	QETN1HM-106Z	E CAPACITOR	10uF 50V M	C555	NCF31CZ-224X	C CAPACITOR	0.22uF 16V Z
C008	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C561	NDC31HJ-390X	C CAPACITOR	39pF 50V J
C009	QETN1HM-106Z	E CAPACITOR	10uF 50V M	C612	NCB31HK-272X	C CAPACITOR	2700pF 50V K
C011	QETN1HM-106Z	E CAPACITOR	10uF 50V M	C613	NCB31HK-272X	C CAPACITOR	2700pF 50V K
C012	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C614	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C013	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C615	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C101	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C619	QETM1VM-228	E CAPACITOR	2200uF 35V M
C102	QETN1HM-106Z	E CAPACITOR	10uF 50V M	C622	QETN1EM-108Z	E CAPACITOR	1000uF 25V M
C103	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C623	QETN1EM-108Z	E CAPACITOR	1000uF 25V M
C104	QETN1CM-107Z	E CAPACITOR	100uF 16V M	C624	NCB31HK-102X	C CAPACITOR	1000pF 50V K
				C626	QETN1EM-108Z	E CAPACITOR	1000uF 25V M
				C627	QETN1HM-106Z	E CAPACITOR	10uF 50V M
				C629	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
				C630	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
				C631	NCB31HK-102X	C CAPACITOR	1000pF 50V K

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
C632	NCB31HK-102X	C CAPACITOR	1000pF 50V K	R276	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
C633	QETN1HM-107Z	E CAPACITOR	100uF 50V M	R277	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C636	NCB31CK-105X	C CAPACITOR	1uF 16V K	R278	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
C637	NCB31CK-105X	C CAPACITOR	1uF 16V K	R279	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
C701	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R280	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
C702	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R281	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C711	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R282	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C901	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R283	QRG01GJ-101	OMF RESISTOR	100Ω 1W J
C902	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R284	QRK126J-181X	UNF C RESISTOR	180Ω 1/2W J
C903	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R285	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C904	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	R286	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C905	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R287	QRK126J-151X	UNF C RESISTOR	150Ω 1/2W J
C906	NCB20JK-225X	C CAPACITOR	2.2uF 6.3V K	R288	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
C907	NDC31HJ-471X	C CAPACITOR	470pF 50V J	R289	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C908	QETN1AM-477Z	E CAPACITOR	470uF 10V M	R290	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C909	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R291	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
C910	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R292	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R002	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R293	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R003	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R294	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R006	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R295	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R007	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R296	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R008	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R297	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R011	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R298	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R101	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R313	QRK126J-331X	UNF C RESISTOR	330Ω 1/2W J
R102	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R315	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R103	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R316	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
R106	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J	R317	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R201	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R501	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R202	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R502	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R205	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	R503	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R206	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	R504	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R208	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R505	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J
R209	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R506	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R210	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R507	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R211	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R509	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R212	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R510	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
R213	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R511	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R214	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R512	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R215	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R513	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R216	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R514	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R217	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R515	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R218	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R516	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R220	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	R517	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R221	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	R518	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R222	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	R519	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R226	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	R520	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R227	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	R521	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R229	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	R523	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R232	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	R524	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R233	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	R525	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R234	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R526	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R235	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R527	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
R236	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R528	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R237	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R529	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
R238	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R530	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
R239	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R531	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R240	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R532	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R241	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R533	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R242	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R536	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R243	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R537	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R244	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R551	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J
R245	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R552	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J
R246	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R553	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R247	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R554	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R249	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R555	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J
R251	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	R556	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R253	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	R557	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J
R255	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	R558	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R258	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	R559	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R259	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	R560	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R260	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	R615	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R261	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	R616	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R262	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	R617	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R263	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	R620	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R264	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R621	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R265	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R622	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R266	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R625	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J
R267	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R629	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R268	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R630	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R269	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R631	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R270	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R632	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R271	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R635	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R272	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R637	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R273	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R638	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R274	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R639	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R275	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	R640	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J
				R641	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J

△Ref No.	Part No.	Part Name	Description Local
R642	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J
R643	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R644	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R645	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R702	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R703	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R704	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R705	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R706	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R707	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R708	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R709	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R710	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
L001	QQL244K-270Z	PEAKING COIL	27uH K
L002	QQL244K-100Z	PEAKING COIL	10uH K
L003	QQL244K-100Z	PEAKING COIL	10uH K
L101	QQL244K-4R7Z	PEAKING COIL	4.7uH K
CN001	QGB1505J1-35	CONNECTOR	B-B (1-35)
CN002	QGC2507C1-96	CONNECTOR	(1-96)
CN003	QGB1506L1-16	CONNECTOR	B-B (1-16)
CN004	QGB1506L1-16	CONNECTOR	B-B (1-16)
CN00B	QJK002-041614-E	SIN CR C-B WIRE	
J601	QNN0596-001	PIN JACK	AUDIO OUT
K001	NQR0129-004X	FERRITE BEADS	
K101	NQR0389-003X	FERRITE BEADS	
K102	NQR0389-003X	FERRITE BEADS	
K551	QQR0621-002Z	FERRITE BEADS	
K552	QQR0621-002Z	FERRITE BEADS	
K601	NQR0199-001X	FERRITE BEADS	
K602	NQR0199-001X	FERRITE BEADS	
LC101	NQR0431-001X	EMI FILTER	0.22uF 50V Z
△TU001	QAU0277-001	TUNER	
X101	QAX0773-001Z	CRYSTAL	18.432000MHz

## POWER & DEF P.W. BOARD ASS'Y (SML-2302A-S2)

REFER TO PARTS LIST IN PAGE 3-10 FOR THIS P.W. BOARD.

## CRT SOCKET P.W. BOARD ASS'Y (SML-3302A-U2)

REFER TO PARTS LIST IN PAGE 3-11 FOR THIS P.W. BOARD.

## SIDE CONTROL P.W. BOARD ASS'Y (SML-8131A-U2)

REFER TO PARTS LIST IN PAGE 3-12 FOR THIS P.W. BOARD.

## FRONT CONTROL P.W. BOARD ASS'Y (SML-8301A-U2)

REFER TO PARTS LIST IN PAGE 3-12 FOR THIS P.W. BOARD.

## AV JACK P.W. BOARD ASS'Y (SML0J301A-U2)

REFER TO PARTS LIST IN PAGE 3-13 FOR THIS P.W. BOARD.

## 100HZ P.W. BOARD ASS'Y (SML0Z301A-U2)

REFER TO PARTS LIST IN PAGE 3-13 FOR THIS P.W. BOARD.

# PRINTED WIRING BOARD PARTS LIST [AV-28H5SR]

## MAIN P.W. BOARD ASS'Y (SML-1302A-U2)

REFER TO PARTS LIST IN PAGE 3-8 FOR THIS P.W. BOARD.

## POWER & DEF P.W. BOARD ASS'Y (SML-2302A-U2)

△Ref No.	Part No.	Part Name	Description	Local
IC401	LA78041	IC		
IC461	LM393P	IC		
IC901	STR-G9656-F3	IC		
△IC941	QAL0515-001	POWER TRANSF		
IC951	SE140N	IC		
IC961	PQ120RDA1SZ	IC		
Q461	RDN050N20	POWER MOS FET		
Q462	KTC3199/YG/-T	TRANSISTOR		
Q463	KTC3199/YG/-T	TRANSISTOR		
Q464	KTA1267/YG/-T	TRANSISTOR		
Q481	DTC124ESA-T	DIGI TRANSISTOR		
Q482	KTC3199/YG/-T	TRANSISTOR		
Q501	BSN304-T	MOS FET		
△Q521	2SC5904-RL	POW TRANSISTOR	H. OUT	
Q581	2SA1208/ST/Z1-T	TRANSISTOR		
Q582	DTC144ESA-T	DIGI TRANSISTOR		
Q583	KTC3199/YG/-T	TRANSISTOR		
Q941	KTC3199/YG/-T	TRANSISTOR		
Q942	KTC3199/YG/-T	TRANSISTOR		
D402	1SR35-400A-T2	SI DIODE		
D461	FR105GT-T3	SI DIODE		
D462	1SS133-T2	SI DIODE		
D463	1SS133-T2	SI DIODE		
D481	1SS133-T2	SI DIODE		
D501	1SS244-T2	SI DIODE		
D521	V11CA-C1	SI DIODE		
D522	FMV-3FU-F1	SI DIODE		
D523	MTZJ22B-T2	Z DIODE		
D525	FR105GT-T3	SI DIODE		
D541	FR105GT-T3	SI DIODE		
D542	MTZJ3.9B-T2	Z DIODE		
D551	FR105GT-T3	SI DIODE		
D552	FR105GT-T3	SI DIODE		
D553	FR105GT-T3	SI DIODE		
D582	MTZJ7.5B-T2	Z DIODE		
D583	MTZJ7.5S-T2	Z DIODE		
D584	FR105GT-T3	SI DIODE		
D901	D3SBA60	DIODE		
D902	FR107GT-T3	SI DIODE		
D904	FR105GT-T3	SI DIODE		
D905	1SS133-T2	SI DIODE		
D906	MTZJ27B-T2	Z DIODE		
D907	1SS133-T2	SI DIODE		
D910	MTZJ15B-T2	Z DIODE		
D911	1SS133-T2	SI DIODE		
D931	S1WB/A/60-4101	BRIDGE DIODE		
D945	1SS133-T2	SI DIODE		
D951	RU4AM-LFT2	SI DIODE		
D952	RU4AM-LFT2	SI DIODE		
D953	FR105GT-T3	SI DIODE		
D954	HER202G-FL	SI DIODE		
D956	FSF05A20	SI DIODE		
D958	MTZJ33B-T2	Z DIODE		
D959	1SS133-T2	SI DIODE		
D981	1SS133-T2	SI DIODE		
D983	1SS133-T2	SI DIODE		
C404	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J	
C405	QDC31HJ-820Z	C CAPACITOR	82pF 50V J	
C406	QETM1VM-108	E CAPACITOR	1000uF 35V M	
C408	QETN1VM-337Z	E CAPACITOR	330uF 35V M	
C409	QFVF1HJ-474Z	MF CAPACITOR	0.47uF 50V J	
C410	QFVF1HJ-474Z	MF CAPACITOR	0.47uF 50V J	
C411	QFLC2AJ-104Z	M CAPACITOR	0.1uF 100V J	
C414	QCB31HK-682Z	C CAPACITOR	6800pF 50V K	
C415	QDC31HJ-470Z	C CAPACITOR	47pF 50V J	
C461	QE20414-226	BP E CAPACITOR	22uF 50V M	
C462	QFN32DJ-152Z	M CAPACITOR	1500pF 200V J	
C463	QFN32DJ-152Z	M CAPACITOR	1500pF 200V J	
C464	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J	
C465	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
C466	QFP31HJ-272Z	PP CAPACITOR	2700pF 50V J	
C467	QFLC1HJ-102Z	M CAPACITOR	1000pF 50V J	
C468	QETN1EM-476Z	E CAPACITOR	47uF 25V M	

△Ref No.	Part No.	Part Name	Description	Local
C470	QCS31HJ-470Z	C CAPACITOR	47pF 50V J	
C471	QFLC1HJ-103Z	M CAPACITOR	0.01uF 50V J	
C481	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
C501	QCB32HK-331Z	C CAPACITOR	330pF 500V K	
C502	QFN32DK-103	M CAPACITOR	0.01uF 200V K	
C503	QFVF1HJ-224Z	MF CAPACITOR	0.22uF 50V J	
C521	QFZ0122-112	MPP CAPACITOR	1100pF 1.8kV H	
C522	QFZ0196-113	MPP CAPACITOR	0.011uF 1.5kV H	
C523	QFN32DJ-393	M CAPACITOR	0.039uF 200V J	
C524	QFP32JJ-223	PP CAPACITOR	0.022uF 630V J	
C526	QFZ0197-204	MPP CAPACITOR	0.2uF 250V J	
C527	QFZ0197-124	MPP CAPACITOR	0.12uF 250V J	
C529	QFZ0197-154	MPP CAPACITOR	0.15uF 250V J	
C530	QCB32HK-561Z	C CAPACITOR	560pF 500V K	
C531	QFZ0194-534	MPP CAPACITOR	0.53uF 250V J	
C532	QETM2CM-227	E CAPACITOR	220uF 160V M	
C533	QETN2EM-475Z	E CAPACITOR	4.7uF 250V M	
C541	QFVF1HJ-105Z	MF CAPACITOR	1uF 50V J	
C551	QCB32HK-152Z	C CAPACITOR	1500pF 500V K	
C552	QETN1CM-108Z	E CAPACITOR	1000uF 16V M	
C553	QCB32HK-152Z	C CAPACITOR	1500pF 500V K	
C554	QETN1CM-108Z	E CAPACITOR	1000uF 16V M	
C556	QETN2EM-106Z	E CAPACITOR	10uF 250V M	
C558	QETN1CM-477Z	E CAPACITOR	470uF 16V M	
C581	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
C582	QETN1EM-476Z	E CAPACITOR	47uF 25V M	
C583	QETN2AM-106Z	E CAPACITOR	10uF 100V M	
C584	QETN1AM-227Z	E CAPACITOR	220uF 10V M	
△C901	QFZ9072-473	MM CAPACITOR	0.047uF AC250V K	
△C902	QFZ9072-104	MM CAPACITOR	0.1uF AC250V K	
△C903	QFZ9072-473	MM CAPACITOR	0.047uF AC250V K	
△C904	QCZ9054-472	C CAPACITOR	4700pF AC250V Z	
△C905	QCZ9054-472	C CAPACITOR	4700pF AC250V Z	
△C906	QCZ9054-472	C CAPACITOR	4700pF AC250V Z	
C907	QE20649-227	E CAPACITOR	220uF 400V M	
C908	QCB32HK-103	C CAPACITOR	0.01uF 500V K	
C909	QCZ0340-391	C CAPACITOR	390pF 2kV K	
C910	QETN1HM-476Z	E CAPACITOR	47uF 50V M	
C911	QCB31HK-102Z	C CAPACITOR	1000pF 50V K	
C912	QCZ0340-561	C CAPACITOR	560pF 2kV K	
C914	QCB31HK-471Z	C CAPACITOR	470pF 50V K	
C915	QFLC1HJ-104Z	M CAPACITOR	0.1uF 50V J	
C916	QCB32HK-152Z	C CAPACITOR	1500pF 500V K	
△C931	QCZ9054-472	C CAPACITOR	4700pF AC250V Z	
△C932	QCZ9054-472	C CAPACITOR	4700pF AC250V Z	
△C933	QCZ9054-472	C CAPACITOR	4700pF AC250V Z	
C934	QE20632-226	E CAPACITOR	22uF 400V M	
C941	QTMN1CM-477Z	E CAPACITOR	470uF 16V M	
C942	QETN1AM-337Z	E CAPACITOR	330uF 10V M	
C951	QE20203-227	E CAPACITOR	220uF 160V M	
C952	QE20255-228	E CAPACITOR	2200uF 16V M	
C953	QETN1CM-108Z	E CAPACITOR	1000uF 16V M	
C954	QETM1VM-228	E CAPACITOR	2200uF 35V M	
C956	QETM1AM-338	E CAPACITOR	3300uF 10V M	
C959	QFVF1HJ-684Z	MF CAPACITOR	0.68uF 50V J	
C960	QCZ0325-821	C CAPACITOR	820pF 2kV K	
C968	QETM1AM-338	E CAPACITOR	3300uF 10V M	
C991	QCZ9079-102	C CAPACITOR	1000pF AC250V M	
C993	QCZ9079-222	C CAPACITOR	2200pF AC250V M	
R401	QRE141J-562Y	C RESISTOR	5.6kΩ 1/4W J	
R402	QRE141J-562Y	C RESISTOR	5.6kΩ 1/4W J	
R403	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	
R404	QRX01GJ-1R0	MF RESISTOR	1Ω 1W J	
R405	QRL029J-151	OMF RESISTOR	150Ω 2W J	
R406	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	
R407	QRX01GJ-1R5	MF RESISTOR	1.5Ω 1W J	
R408	QRX01GJ-1R5	MF RESISTOR	1.5Ω 1W J	
R409	QRE141J-823Y	C RESISTOR	82kΩ 1/4W J	
R410	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
R461	QRG029J-820	OMF RESISTOR	82Ω 2W J	
R462	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J	
R463	QRE141J-682Y	C RESISTOR	6.8kΩ 1/4W J	
R464	QRX01GJ-2R7	MF RESISTOR	2.7Ω 1W J	
R468	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R469	QRE141J-272Y	C RESISTOR	2.7kΩ 1/4W J	
R471	QRE141J-391Y	C RESISTOR	390Ω 1/4W J	
R472	QRA14CF-1002Y	CMF RESISTOR	10kΩ 1/4W F	
R473	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J	
R474	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	
R475	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R476	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R477	QRE141J-563Y	C RESISTOR	56kΩ 1/4W J	
R478	QRE141J-333Y	C RESISTOR	33kΩ 1/4W J	

△Ref No.	Part No.	Part Name	Description Local
R481	QRE141J-274Y	C RESISTOR	270kΩ 1/4W J
R482	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J
R501	QRE141J-471Y	C RESISTOR	470Ω 1/4W J
R502	QRE141J-123Y	C RESISTOR	12kΩ 1/4W J
R503	QRE121J-152Y	C RESISTOR	1.5kΩ 1/2W J
R504	QRL039J-222	OMF RESISTOR	2.2kΩ 3W J
R505	QRL039J-222	OMF RESISTOR	2.2kΩ 3W J
R506	QRE121J-5R6Y	C RESISTOR	5.6Ω 1/2W J
R521	QRE121J-471Y	C RESISTOR	470Ω 1/2W J
R522	QRE141J-333Y	C RESISTOR	33kΩ 1/4W J
R523	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J
R524	QRC121K-152Z	COMP RESISTOR	1.5kΩ 1/2W K
R525	QRL039J-103	OMF RESISTOR	10kΩ 3W J
R541	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J
R542	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J
R543	QRE121J-272Y	C RESISTOR	2.7kΩ 1/2W J
R551	QRT039J-3R3	MF RESISTOR	3.3Ω 3W J
R552	QRT039J-3R3	MF RESISTOR	3.3Ω 3W J
R581	QRF154K-4R7	UNF WW RESISTOR	4.7Ω 15W K
R582	QRE141J-681Y	C RESISTOR	680Ω 1/4W J
R583	QRE121J-682Y	C RESISTOR	6.8kΩ 1/2W J
R584	QRE141J-183Y	C RESISTOR	18kΩ 1/4W J
R585	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J
R586	QRA14CF-7501Y	CMF RESISTOR	7.5kΩ 1/4W F
R587	QRA14CF-2101Y	CMF RESISTOR	2.1kΩ 1/4W F
R588	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J
△R591	QRZ9017-4R7	FUSI RESISTOR	4.7Ω 1/4W J
R901	QRE121J-331Y	C RESISTOR	330Ω 1/2W J
R902	QRF054K-3R3	UNF WW RESISTOR	3.3Ω 5W K
R903	QRF104K-3R9	UNF WW RESISTOR	3.9Ω 10W K
R904	QRL039J-683	OMF RESISTOR	68kΩ 3W J
R905	QRE121J-474Y	C RESISTOR	470kΩ 1/2W J
R906	QRE121J-474Y	C RESISTOR	470kΩ 1/2W J
R908	QRL039J-823	OMF RESISTOR	82kΩ 3W J
R909	QRL039J-823	OMF RESISTOR	82kΩ 3W J
R910	QRE121J-680Y	C RESISTOR	68Ω 1/2W J
R911	QRE121J-332Y	C RESISTOR	3.3kΩ 1/2W J
R914	QRZ0237-R10	UNF WW RESISTOR	0.1Ω
R915	QRE121J-681Y	C RESISTOR	680Ω 1/2W J
R916	QRE121J-152Y	C RESISTOR	1.5kΩ 1/2W J
R944	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J
R945	QRE141J-563Y	C RESISTOR	56kΩ 1/4W J
R946	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J
R949	QRE141J-334Y	C RESISTOR	330kΩ 1/4W J
R951	QRE121J-222Y	C RESISTOR	2.2kΩ 1/2W J
R952	QRL039J-223	OMF RESISTOR	22kΩ 3W J
R953	QRT039J-R33	MF RESISTOR	0.33Ω 3W J
R981	QRE141J-153Y	C RESISTOR	15kΩ 1/4W J
R982	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J
△R991	QRZ9046-825Z	C RESISTOR	8.2MΩ 1/2W K
R992	QRZ9046-105Z	C RESISTOR	1MΩ 1/2W K
L461	QQR1195-001	CHOKE COIL	
L462	QQR1422-001	CHOKE COIL	
L521	QQLZ031-180	CHOKE COIL	18uH
L522	QQR1191-002	LINEARITY COIL	
L551	QQLZ026-540	COIL	54uH A}7%
L901	QQL401K-100Z	CHOKE COIL	10uH K
L902	QQL401K-100Z	CHOKE COIL	10uH K
△L903	QQR1200-001	CHOKE COIL	
L941	QQL26AM-4R7Z	CHOKE COIL	4.7uH M
L942	QQL26AK-220Z	CHOKE COIL	22uH K
L951	QQLZ026-460	COIL	46uH A}7%
T501	QQR1111-001	LINEARITY COIL	
△T901	QQS0258-001	SW TRANSF	
CN003	QGB1506M1-16	CONNECTOR	B-B (1-16)
CN004	QGB1506M1-16	CONNECTOR	B-B (1-16)
CN0HV	QGGZ8005C3-05	CONNECTOR	(1-5)
△CP931	QMFZ052-2R0-E	FUSE	2A AC250V
△CP951	ICP-N75-T	IC PROTECTOR	2.7A
△CP952	ICP-N75-T	IC PROTECTOR	2.7A
△CP954	ICP-N75-T	IC PROTECTOR	2.7A
K401	QQR0621-002Z	FERRITE BEADS	
K522	QQR1114-001Z	FERRITE BEADS	
K523	QQR1114-001Z	FERRITE BEADS	
K524	QQR1114-001Z	FERRITE BEADS	
K901	QQR1113-001Z	FERRITE BEADS	
K952	QQR0621-002Z	FERRITE BEADS	
K953	QQR0621-002Z	FERRITE BEADS	
K955	QQR0621-002Z	FERRITE BEADS	
△LF901	QQR1095-001	LINE FILTER	
△PC901	PC123Y22FZ	PHOTO COUPLER	
△RY941	QSK0099-001	RELAY	
△TH901	QAD0121-9R0	P THERMISTOR	9Ω

## CRT SOCKET P.W. BOARD ASS'Y (SML-3302A-U2)

REFER TO PARTS LIST IN PAGE 3-11 FOR THIS P.W. BOARD.

## SIDE CONTROL P.W. BOARD ASS'Y (SML-8131A-U2)

REFER TO PARTS LIST IN PAGE 3-12 FOR THIS P.W. BOARD.

## FRONT CONTROL P.W. BOARD ASS'Y (SML-8301A-U2)

REFER TO PARTS LIST IN PAGE 3-12 FOR THIS P.W. BOARD.

## AV JACK P.W. BOARD ASS'Y (SML0J301A-U2)

REFER TO PARTS LIST IN PAGE 3-13 FOR THIS P.W. BOARD.

## 100HZ P.W. BOARD ASS'Y (SML0Z301A-U2)

REFER TO PARTS LIST IN PAGE 3-13 FOR THIS P.W. BOARD.



# PRINTED WIRING BOARD PARTS LIST [AV-28H50SU]

## MAIN P.W. BOARD ASS'Y (SML-1302A-U2)

REFER TO PARTS LIST IN PAGE 3-8 FOR THIS P.W. BOARD.

## AV JACK P.W. BOARD ASS'Y (SML0J301A-U2)

REFER TO PARTS LIST IN PAGE 3-13 FOR THIS P.W. BOARD.

## POWER & DEF P.W. BOARD ASS'Y (SML-2302A-S2)

REFER TO PARTS LIST IN PAGE 3-10 FOR THIS P.W. BOARD.

## 100HZ P.W. BOARD ASS'Y (SML0Z301A-U2)

REFER TO PARTS LIST IN PAGE 3-13 FOR THIS P.W. BOARD.

## CRT SOCKET P.W. BOARD ASS'Y (SML-3302A-U2)

REFER TO PARTS LIST IN PAGE 3-11 FOR THIS P.W. BOARD.

## SIDE CONTROL P.W. BOARD ASS'Y (SML-8133A-U2)

△Ref No.	Part No.	Part Name	Description Local
C8101	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C8102	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C8103	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C8104	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C8131	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C8132	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C8133	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
R8101	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J
R8102	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R8103	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R8111	QRE121J-101Y	C RESISTOR	100Ω 1/2W J
R8112	QRE121J-101Y	C RESISTOR	100Ω 1/2W J
R8113	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R8114	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R8133	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
L8111	QQL244K-5R6Z	PEAKING COIL	5.6uH K
L8112	QQL244K-5R6Z	PEAKING COIL	5.6uH K
L8131	QQL244K-270Z	PEAKING COIL	27uH K
L8132	QQL244K-270Z	PEAKING COIL	27uH K
J8111	QMS3001-C01	3.5 JACK	HEADPHONE
J8131	QNN0591-001	PIN JACK	EXT-4(V/L/R)
J8132	QND0084-001	S JACK	EXT-4(S)
K8111	NQR0129-004X	FERRITE BEADS	
K8131	NQR0129-004X	FERRITE BEADS	
S8101	QSW0619-003Z	TACT SWITCH	CH UP
S8102	QSW0619-003Z	TACT SWITCH	MENU
S8103	QSW0619-003Z	TACT SWITCH	CH DOWN

## FRONT CONTROL P.W. BOARD ASS'Y (SML-8302A-U2)

△Ref No.	Part No.	Part Name	Description Local
IC8851	GP1UM281QKVF	IR DETECT UNIT	
Q8801	UN2212-X	DIGI TRANSISTOR	
D8801	LH22440	LED	POWER
C8851	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C8852	QETN1CM-107Z	E CAPACITOR	100uF 16V M
△C8901	QFZ9072-474	MM CAPACITOR	0.47uF AC250V K
R8801	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R8802	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R8804	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R8851	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R8852	QRE121J-470Y	C RESISTOR	47Ω 1/2W J
△F8901	WJK0200-008A-E	E-SI C WIRE C-B	
△LF8901	QMF5AD2-3R15-J1	FUSE	3.15A AC250V
△S8901	QQR1095-001	LINE FILTER	
△S8901	QSW0824-001	PUSH SWITCH	POWER

# PRINTED WIRING BOARD PARTS LIST

## [AV-32H5BU, AV-32H5SU]

### MAIN P.W. BOARD ASS'Y (SML-1301A-U2)

△Ref No.	Part No.	Part Name	Description Local
IC101	MSP3415GQGB8V3M	IC	
IC201	CXA2089Q-X	IC	
IC501	LM324D-X	IC	
IC551	LA6515	IC	
IC601	AN5277	IC	
IC701	ATE32-32H5BU	IC	(SERVICE)
IC901	AN78L08-T	IC	
IC902	MM1565AF-X	IC	
IC903	L7809CP	IC	
Q001	2SC3928A/QR/-X	TRANSISTOR	
Q002	2SC3928A/QR/-X	TRANSISTOR	
Q101	UN2213-X	DIGI TRANSISTOR	
Q201	2SC3928A/QR/-X	TRANSISTOR	
Q202	2SC3928A/QR/-X	TRANSISTOR	
Q207	UN2226-X	DIGI TRANSISTOR	
Q210	2SA1530A/QR/-X	TRANSISTOR	
Q211	UN2226-X	DIGI TRANSISTOR	
Q212	2SA1530A/QR/-X	TRANSISTOR	
Q213	UN2226-X	DIGI TRANSISTOR	
Q214	UN2226-X	DIGI TRANSISTOR	
Q215	KTA1267/YG/-T	TRANSISTOR	
Q216	2SC3928A/QR/-X	TRANSISTOR	
Q217	KTC3199/YG/-T	TRANSISTOR	
Q219	2SC3928A/QR/-X	TRANSISTOR	
Q305	KTC3199/YG/-T	TRANSISTOR	
Q501	2SC3928A/QR/-X	TRANSISTOR	
Q502	2SC3928A/QR/-X	TRANSISTOR	
Q604	2SA1530A/QR/-X	TRANSISTOR	
Q605	2SC3928A/QR/-X	TRANSISTOR	
Q606	2SC3928A/QR/-X	TRANSISTOR	
Q609	2SA1530A/QR/-X	TRANSISTOR	
Q610	UN2226-X	DIGI TRANSISTOR	
Q611	UN2226-X	DIGI TRANSISTOR	
Q701	2SA1530A/QR/-X	TRANSISTOR	
Q702	2SC3928A/QR/-X	TRANSISTOR	
D201	UDZS12B-X	Z DIODE	
D202	UDZS12B-X	Z DIODE	
D203	UDZS12B-X	Z DIODE	
D204	UDZS12B-X	Z DIODE	
D205	UDZS12B-X	Z DIODE	
D206	UDZS12B-X	Z DIODE	
D207	UDZS12B-X	Z DIODE	
D208	UDZS12B-X	Z DIODE	
D209	UDZS12B-X	Z DIODE	
D210	UDZS12B-X	Z DIODE	
D211	UDZS12B-X	Z DIODE	
D212	UDZS12B-X	Z DIODE	
D213	UDZS15B-X	Z DIODE	
D214	UDZS15B-X	Z DIODE	
D501	1SS355-X	SI DIODE	
D502	1SS355-X	SI DIODE	
D503	1SS355-X	SI DIODE	
D504	1SS355-X	SI DIODE	
D604	1SS355-X	SI DIODE	
D605	1SS355-X	SI DIODE	
D606	1SS355-X	SI DIODE	
D607	1SS355-X	SI DIODE	
D701	UDZS5.6B-X	Z DIODE	1.5kΩ 1/10W J
D702	UDZS5.6B-X	Z DIODE	1.5kΩ 1/10W J
D703	UDZS5.6B-X	Z DIODE	1.5kΩ 1/10W J
D704	UDZS5.6B-X	Z DIODE	1.5kΩ 1/10W J
D705	1SS355-X	SI DIODE	
D981	1SS355-X	SI DIODE	
D982	1SS355-X	SI DIODE	
D983	1SS355-X	SI DIODE	
C001	NCB31HK-222X	C CAPACITOR	2200pF 50V K
C002	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C004	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C005	QETN1CM-108Z	E CAPACITOR	1000uF 16V M
C006	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C007	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C008	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C009	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C010	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C011	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C012	NCB31HK-103X	C CAPACITOR	0.01uF 50V K

△Ref No.	Part No.	Part Name	Description Local
C013	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C101	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C102	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C103	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C104	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C105	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C106	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C107	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C108	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C109	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C110	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C111	NCB21CK-105X	C CAPACITOR	1uF 16V K
C112	NCB21CK-105X	C CAPACITOR	1uF 16V K
C113	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C114	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C115	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
C116	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
C117	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C118	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C119	NDC31HJ-2R0X	C CAPACITOR	2pF 50V J
C120	NDC31HJ-2R0X	C CAPACITOR	2pF 50V J
C121	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C122	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
C123	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
C124	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C201	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C202	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C203	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C204	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C205	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C206	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C207	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C209	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C210	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C213	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C215	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C216	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C220	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C221	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C222	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C223	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C224	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C225	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C226	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C227	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C228	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C229	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C230	QENC1EM-106Z	BP E CAPACITOR	10uF 25V M
C231	QENC1EM-106Z	BP E CAPACITOR	10uF 25V M
C232	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C233	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C234	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C235	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C236	QETN1CM-477Z	E CAPACITOR	470uF 16V M
C237	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C238	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C239	QETN1CM-477Z	E CAPACITOR	470uF 16V M
C303	QETN1CM-227Z	E CAPACITOR	220uF 16V M
C304	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C308	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C310	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
C503	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
C504	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C505	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C506	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C507	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C508	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C509	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C510	NCB31EK-333X	C CAPACITOR	0.033uF 25V K
C515	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C551	NCF31CZ-224X	C CAPACITOR	0.22uF 16V Z
C552	NCF31CZ-224X	C CAPACITOR	0.22uF 16V Z
C553	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C554	NCF31CZ-224X	C CAPACITOR	0.22uF 16V Z
C555	NCF31CZ-224X	C CAPACITOR	0.22uF 16V Z
C561	NDC31HJ-390X	C CAPACITOR	39pF 50V J
C612	NCB31HK-272X	C CAPACITOR	2700pF 50V K
C613	NCB31HK-272X	C CAPACITOR	2700pF 50V K
C614	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C615	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C619	QETM1VM-228	E CAPACITOR	2200uF 35V M

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
C622	QETN1EM-108Z	E CAPACITOR	1000uF 25V M	R265	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C623	QETN1EM-108Z	E CAPACITOR	1000uF 25V M	R266	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C624	NCB31HK-102X	C CAPACITOR	1000pF 50V K	R267	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C626	QETN1EM-108Z	E CAPACITOR	1000uF 25V M	R268	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C627	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R269	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C629	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R270	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C630	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R271	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
C631	NCB31HK-102X	C CAPACITOR	1000pF 50V K	R272	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
C632	NCB31HK-102X	C CAPACITOR	1000pF 50V K	R273	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
C633	QETN1HM-107Z	E CAPACITOR	100uF 50V M	R274	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
C636	NCB31CK-105X	C CAPACITOR	1uF 16V K	R275	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
C637	NCB31CK-105X	C CAPACITOR	1uF 16V K	R276	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
C701	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R277	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C702	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R278	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
C711	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R279	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
C901	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R280	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
C902	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R281	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C903	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R282	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C904	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	R283	QRG01GJ-101	OMF RESISTOR	100Ω 1W J
C905	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R284	QRK126J-181X	UNF C RESISTOR	180Ω 1/2W J
C906	NCB20JK-225X	C CAPACITOR	2.2uF 6.3V K	R285	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C907	NDC31HJ-471X	C CAPACITOR	470pF 50V J	R286	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C908	QETN1AM-477Z	E CAPACITOR	470uF 10V M	R287	QRK126J-151X	UNF C RESISTOR	150Ω 1/2W J
C909	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R288	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
C910	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R289	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R002	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R290	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R003	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R291	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R004	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R292	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R005	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R293	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R006	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R294	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R007	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R295	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R008	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R296	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R009	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	R297	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R010	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	R298	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R011	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R313	QRK126J-331X	UNF C RESISTOR	330Ω 1/2W J
R101	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R315	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R102	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R316	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
R103	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R317	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R201	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R501	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R202	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R502	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R205	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	R503	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R206	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	R504	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R208	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R505	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J
R209	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R506	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R210	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R507	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R211	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R509	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R212	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R510	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
R213	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R511	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R214	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R512	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R215	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R513	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R216	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R514	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R217	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R515	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R218	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R516	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R220	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	R517	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R221	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	R518	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R222	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	R519	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R226	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	R520	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R227	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	R521	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R229	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	R523	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R232	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	R524	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R233	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	R525	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R234	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R526	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R235	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R527	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
R236	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R528	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R237	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R529	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
R238	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R530	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
R239	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R531	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R240	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R532	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R241	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R533	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R242	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R536	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R243	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R537	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R244	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R551	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J
R245	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R552	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J
R246	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R553	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R247	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R554	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R249	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R555	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J
R251	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	R556	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R253	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	R557	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J
R255	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	R558	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R258	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	R559	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R259	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	R560	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R260	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	R615	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R261	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	R616	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R262	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	R617	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R263	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	R620	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R264	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R621	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
				R622	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J

△Ref No.	Part No.	Part Name	Description	Local	△Ref No.	Part No.	Part Name	Description	Local
R625	NRSA63J-183X	MG RESISTOR	18kΩ	1/16W J	D551	FR105GT-T3	SI DIODE		
R629	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J	D552	FR105GT-T3	SI DIODE		
R630	NRSA63J-273X	MG RESISTOR	27kΩ	1/16W J	D553	FR105GT-T3	SI DIODE		
R631	NRSA63J-473X	MG RESISTOR	47kΩ	1/16W J	D582	MTZJ7.5B-T2	Z DIODE		
R632	NRSA63J-822X	MG RESISTOR	8.2kΩ	1/16W J	D583	MTZJ7.5S-T2	Z DIODE		
R635	NRSA63J-822X	MG RESISTOR	8.2kΩ	1/16W J	D584	FR105GT-T3	SI DIODE		
R637	NRSA63J-473X	MG RESISTOR	47kΩ	1/16W J	D901	D3SBA60	DIODE		
R638	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J	D902	FR107GT-T3	SI DIODE		
R639	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J	D904	FR105GT-T3	SI DIODE		
R640	NRSA63J-681X	MG RESISTOR	680Ω	1/16W J	D905	1SS133-T2	SI DIODE		
R641	NRSA63J-104X	MG RESISTOR	100kΩ	1/16W J	D906	MTZJ27B-T2	Z DIODE		
R642	NRSA63J-681X	MG RESISTOR	680Ω	1/16W J	D907	1SS133-T2	SI DIODE		
R643	NRSA63J-473X	MG RESISTOR	47kΩ	1/16W J	D910	MTZJ15B-T2	Z DIODE		
R644	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	D911	1SS133-T2	SI DIODE		
R645	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	D931	S1WB/A/60-4101	BRIDGE DIODE		
R702	NRSA63J-221X	MG RESISTOR	220Ω	1/16W J	D945	1SS133-T2	SI DIODE		
R703	NRSA63J-221X	MG RESISTOR	220Ω	1/16W J	D951	RU4AM-LFT2	SI DIODE		
R704	NRSA63J-221X	MG RESISTOR	220Ω	1/16W J	D952	RU4AM-LFT2	SI DIODE		
R705	NRSA63J-221X	MG RESISTOR	220Ω	1/16W J	D953	FR105GT-T3	SI DIODE		
R706	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J	D954	HER202G-FL	SI DIODE		
R707	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J	D956	FSF05A20	SI DIODE		
R708	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	D958	MTZJ33B-T2	Z DIODE		
R709	NRSA63J-222X	MG RESISTOR	2.2kΩ	1/16W J	D959	1SS133-T2	SI DIODE		
R710	NRSA63J-104X	MG RESISTOR	100kΩ	1/16W J	D981	1SS133-T2	SI DIODE		
					D983	1SS133-T2	SI DIODE		
L001	QQL244K-270Z	PEAKING COIL	27uH	K	C404	QFVF1HJ-104Z	MF CAPACITOR	0.1uF	50V J
L002	QQL244K-100Z	PEAKING COIL	10uH	K	C405	QDC31HJ-820Z	C CAPACITOR	82pF	50V J
L003	QQL244K-100Z	PEAKING COIL	10uH	K	C406	QETM1VM-108	E CAPACITOR	1000uF	35V M
L101	QQL244K-4R7Z	PEAKING COIL	4.7uH	K	C408	QETN1VM-337Z	E CAPACITOR	330uF	35V M

CN001	QGB1505J1-35	CONNECTOR	B-B (1-35)	
CN002	QGC2507C1-96	CONNECTOR	(1-96)	
CN003	QGB1506L1-16	CONNECTOR	B-B (1-16)	
CN004	QGB1506L1-16	CONNECTOR	B-B (1-16)	
CN00B	QJK002-041614-E	SIN CR C-B WIRE		
J601	QNN0596-001	PIN JACK	AUDIO OUT	
K001	NQR0129-004X	FERRITE BEADS		
K101	NQR0389-003X	FERRITE BEADS		
K102	NQR0389-003X	FERRITE BEADS		
K551	QQR0621-002Z	FERRITE BEADS		
K552	QQR0621-002Z	FERRITE BEADS		
K601	NQR0199-001X	FERRITE BEADS		
K602	NQR0199-001X	FERRITE BEADS		
LC101	NQR0431-001X	EMI FILTER	0.22uF	50V Z
△TU001	QAU0276-002	TUNER		
X101	QAX0773-001Z	CRYSTAL	18.432000MHz	

## POWER & DEF P.W. BOARD ASS'Y (SML-2301A-S2)

△Ref No.	Part No.	Part Name	Description	Local	△Ref No.	Part No.	Part Name	Description	Local
IC401	LA78041	IC			C501	QCB32HK-331Z	C CAPACITOR	330pF	500V K
IC461	LM393P	IC			C502	QFN32DK-103	M CAPACITOR	0.01uF	200V K
IC901	STR-G9656-F3	IC			C503	QFVF1HJ-224Z	MF CAPACITOR	0.22uF	50V J
△IC941	QAL0515-001	POWER TRANSF			C521	QFZ0122-112	MPP CAPACITOR	1100pF	1.8kV H
IC951	SE140N	IC			C522	QFZ0196-113	MPP CAPACITOR	0.011uF	1.5kV H
IC961	PQ120RDA1SZ	IC			C523	QFN32DJ-393	M CAPACITOR	0.039uF	200V J
Q461	RDN050N20	POWER MOS FET			C524	QFP32GJ-223	PP CAPACITOR	0.022uF	400V J
Q462	KTC3199/YG/-T	TRANSISTOR			C526	QFZ0197-204	MPP CAPACITOR	0.2uF	250V J
Q463	KTC3199/YG/-T	TRANSISTOR			C527	QFZ0197-823	MPP CAPACITOR	0.082uF	250V J
Q464	KTA1267/YG/-T	TRANSISTOR			C529	QFZ0197-184	MPP CAPACITOR	0.18uF	250V J
Q481	DTC124ESA-T	DIGI TRANSISTOR			C530	QCB32HK-561Z	C CAPACITOR	560pF	500V K
Q482	KTC3199/YG/-T	TRANSISTOR			C531	QFZ0194-534	MPP CAPACITOR	0.53uF	250V J
Q501	BSN304-T	MOS FET			C532	QETM2CM-227	E CAPACITOR	220uF	160V M
△Q521	2SC5905-RL	POW TRANSISTOR	H. OUT		C533	QETN2EM-475Z	E CAPACITOR	4.7uF	250V M
Q581	2SA1208/ST/Z1-T	TRANSISTOR			C541	QFVF1HJ-105Z	MF CAPACITOR	1uF	50V J
Q582	DTC144ESA-T	DIGI TRANSISTOR			C551	QCB32HK-152Z	C CAPACITOR	1500pF	500V K
Q583	KTC3199/YG/-T	TRANSISTOR			C552	QETN1CM-108Z	E CAPACITOR	1000uF	16V M
Q941	KTC3199/YG/-T	TRANSISTOR			C553	QCB32HK-152Z	C CAPACITOR	1500pF	500V K
Q942	KTC3199/YG/-T	TRANSISTOR			C554	QETN1CM-108Z	E CAPACITOR	1000uF	16V M
D402	1SR35-400A-T2	SI DIODE			C555	QCB32HK-102Z	C CAPACITOR	1000pF	500V K
D461	FR105GT-T3	SI DIODE			C556	QETN2EM-106Z	E CAPACITOR	10uF	250V M
D462	1SS133-T2	SI DIODE			C558	QETN1CM-477Z	E CAPACITOR	470uF	16V M
D463	1SS133-T2	SI DIODE			C581	QETN1CM-107Z	E CAPACITOR	100uF	16V M
D481	1SS133-T2	SI DIODE			C582	QETN1EM-476Z	E CAPACITOR	47uF	25V M
D501	1SS244-T2	SI DIODE			C583	QETN2AM-106Z	E CAPACITOR	10uF	100V M
D521	V11CA-C1	SI DIODE			C584	QETN1AM-227Z	E CAPACITOR	220uF	10V M
D522	FMV-3FU-F1	SI DIODE			△C901	QFZ9072-473	MM CAPACITOR	0.047uF	AC250V K
D523	MTZJ22B-T2	Z DIODE			△C902	QFZ9072-104	MM CAPACITOR	0.1uF	AC250V K
D525	FR105GT-T3	SI DIODE			△C903	QFZ9072-473	MM CAPACITOR	0.047uF	AC250V K
D541	FR105GT-T3	SI DIODE			△C904	QCZ9054-472	C CAPACITOR	4700pF	AC250V Z
D542	MTZJ3.9B-T2	Z DIODE			△C905	QCZ9054-472	C CAPACITOR	4700pF	AC250V Z
					△C906	QCZ9054-472	C CAPACITOR	4700pF	AC250V Z
					C907	QEZO649-227	E CAPACITOR	220uF	400V M
					C908	QCB32HK-103	C CAPACITOR	0.01uF	500V K
					C909	QCZ0340-391	C CAPACITOR	390pF	2kV K
					C910	QETN1HM-476Z	E CAPACITOR	47uF	50V M
					C911	QCB31HK-102Z	C CAPACITOR	1000pF	50V K
					C912	QCZ0340-561	C CAPACITOR	560pF	2kV K
					C914	QCB31HK-471Z	C CAPACITOR	470pF	50V K
					C915	QFLC1HJ-104Z	M CAPACITOR	0.1uF	50V J
					C916	QCB32HK-152Z	C CAPACITOR	1500pF	500V K

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
△C931	QCZ9054-472	C CAPACITOR	4700pF AC250V Z	R953	QRT039J-R33	MF RESISTOR	0.33Ω 3W J
△C932	QCZ9054-472	C CAPACITOR	4700pF AC250V Z	R981	QRE141J-153Y	C RESISTOR	15kΩ 1/4W J
△C933	QCZ9054-472	C CAPACITOR	4700pF AC250V Z	R982	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J
C934	QEZ0632-226	E CAPACITOR	22uF 400V M	△R991	QRZ9046-825Z	C RESISTOR	8.2MΩ 1/2W K
C941	QTMN1CM-477Z	E CAPACITOR	470uF 16V M	R992	QRZ9046-105Z	C RESISTOR	1MΩ 1/2W K
C942	QETN1AM-337Z	E CAPACITOR	330uF 10V M				
C951	QEZ0203-227	E CAPACITOR	220uF 160V M	L461	QQR1195-001	CHOKE COIL	
C952	QEZ0255-228	E CAPACITOR	2200uF 16V M	L462	QQR1422-001	CHOKE COIL	
C953	QETN1CM-108Z	E CAPACITOR	1000uF 16V M	L521	QQLZ031-180	CHOKE COIL	18uH
C954	QETM1VM-228	E CAPACITOR	2200uF 35V M	L522	QQR1191-002	LINEARITY COIL	
C956	QETM1AM-338	E CAPACITOR	3300uF 10V M	L551	QQLZ026-540	COIL	54uH A)7%
C959	QFVF1HJ-684Z	MF CAPACITOR	0.68uF 50V J	L901	QQL401K-100Z	CHOKE COIL	10uH K
C960	QCZ0325-821	C CAPACITOR	820pF 2kV K	L902	QQL401K-100Z	CHOKE COIL	10uH K
C968	QETM1AM-338	E CAPACITOR	3300uF 10V M	△L903	QQR1200-001	CHOKE COIL	
C991	QCZ9079-102	C CAPACITOR	1000pF AC250V M	L941	QQL26AM-4R7Z	CHOKE COIL	4.7uH M
C993	QCZ9079-222	C CAPACITOR	2200pF AC250V M	L942	QQL26AK-220Z	CHOKE COIL	22uH K
				L951	QQLZ026-460	COIL	46uH A)7%
				T501	QQR1111-001	LINEARITY COIL	
R401	QRE141J-562Y	C RESISTOR	5.6kΩ 1/4W J	△T901	QQS0258-001	SW TRANSF	
R402	QRE141J-562Y	C RESISTOR	5.6kΩ 1/4W J				
R403	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	CN003	QGB1506M1-16	CONNECTOR	B-B (1-16)
R404	QRX01GJ-1R0	MF RESISTOR	1Ω 1W J	CN004	QGB1506M1-16	CONNECTOR	B-B (1-16)
R405	QRL029J-151	OMF RESISTOR	150Ω 2W J	CN0HV	QGZ8005C3-05	CONNECTOR	(1-5)
R406	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	△CP931	QMFZ052-2R0-E	FUSE	2A AC250V
R407	QRX01GJ-1R5	MF RESISTOR	1.5Ω 1W J	△CP951	ICP-N75-T	IC PROTECTOR	2.7A
R408	QRX01GJ-1R5	MF RESISTOR	1.5Ω 1W J	△CP952	ICP-N75-T	IC PROTECTOR	2.7A
R409	QRE141J-823Y	C RESISTOR	82kΩ 1/4W J	△CP954	ICP-N75-T	IC PROTECTOR	2.7A
R410	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	K401	QQR0621-002Z	FERRITE BEADS	
R461	QRG029J-820	OMF RESISTOR	82Ω 2W J	K522	QQR1114-001Z	FERRITE BEADS	
R462	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J	K523	QQR1114-001Z	FERRITE BEADS	
R463	QRE141J-682Y	C RESISTOR	6.8kΩ 1/4W J	K524	QQR1114-001Z	FERRITE BEADS	
R464	QRX01GJ-3R3	MF RESISTOR	3.3Ω 1W J	K901	QQR1113-001Z	FERRITE BEADS	
R468	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	K952	QQR0621-002Z	FERRITE BEADS	
R469	QRE141J-272Y	C RESISTOR	2.7kΩ 1/4W J	K953	QQR0621-002Z	FERRITE BEADS	
R471	QRE141J-391Y	C RESISTOR	390Ω 1/4W J	K955	QQR0621-002Z	FERRITE BEADS	
R472	QRA14CF-1002Y	CMF RESISTOR	10kΩ 1/4W F	△LF901	QQR1095-001	LINE FILTER	
R473	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J	△PC901	PC123Y22FZ	PHOTO COUPLER	
R474	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	△RY941	QSK0099-001	RELAY	
R475	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	△TH901	QAD0121-9R0	P THERMISTOR	9Ω
R476	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J				
R477	QRE141J-563Y	C RESISTOR	56kΩ 1/4W J				
R478	QRE141J-333Y	C RESISTOR	33kΩ 1/4W J				
R481	QRE141J-224Y	C RESISTOR	220kΩ 1/4W J				
R482	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J				
R501	QRE141J-471Y	C RESISTOR	470Ω 1/4W J				
R502	QRE141J-123Y	C RESISTOR	12kΩ 1/4W J				
R503	QRE121J-152Y	C RESISTOR	1.5kΩ 1/2W J				
R504	QRL039J-222	OMF RESISTOR	2.2kΩ 3W J				
R505	QRL039J-222	OMF RESISTOR	2.2kΩ 3W J	IC3201	TDA6111Q/N4	IC	
R506	QRE121J-5R6Y	C RESISTOR	5.6Ω 1/2W J	IC3202	TDA6111Q/N4	IC	
R521	QRE121J-471Y	C RESISTOR	470Ω 1/2W J	IC3203	TDA6111Q/N4	IC	
R522	QRE141J-333Y	C RESISTOR	33kΩ 1/4W J				
R523	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	Q3104	2SC3928A/QR/-X	TRANSISTOR	
R524	QRC121K-152Z	COMP RESISTOR	1.5kΩ 1/2W K	Q3105	2SC1627A/OY/-T	SI TRANSISTOR	
R525	QRL039J-103	OMF RESISTOR	10kΩ 3W J	Q3108	2SA2005/DE/-	POW TRANSISTOR	
R541	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	Q3109	2SC5511/DE/-	POW TRANSISTOR	
R542	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	Q3301	2SA1530A/QR/-X	TRANSISTOR	
R543	QRE121J-272Y	C RESISTOR	2.7kΩ 1/2W J	Q3303	2SA1530A/QR/-X	TRANSISTOR	
R551	QRT039J-3R3	MF RESISTOR	3.3Ω 3W J	Q3304	2SC3928A/QR/-X	TRANSISTOR	
R552	QRT039J-3R3	MF RESISTOR	3.3Ω 3W J				
R581	QRF154K-4R7	UNF VWW RESISTOR	4.7Ω 15W K	D3102	1SS355-X	SI DIODE	
R582	QRE141J-681Y	C RESISTOR	680Ω 1/4W J	D3103	FR105GT-T3	SI DIODE	
R583	QRE121J-682Y	C RESISTOR	6.8kΩ 1/2W J	D3104	FR105GT-T3	SI DIODE	
R584	QRE141J-183Y	C RESISTOR	18kΩ 1/4W J	D3201	FR105SGT-T2	SI DIODE	
R585	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J	D3202	FR105SGT-T2	SI DIODE	
R586	QRA14CF-7501Y	CMF RESISTOR	7.5kΩ 1/4W F	D3203	FR105SGT-T2	SI DIODE	
R587	QRA14CF-2201Y	CMF RESISTOR	2.2kΩ 1/4W F	D3204	FR105GT-T3	SI DIODE	
R588	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	D3205	1N4003SG-T2	SI DIODE	
△R591	QRZ9017-4R7	FUSI RESISTOR	4.7Ω 1/4W J	D3206	1N4003SG-T2	SI DIODE	
R901	QRE121J-331Y	C RESISTOR	330Ω 1/2W J	D3207	1N4003SG-T2	SI DIODE	
R902	QRF054K-3R3	UNF VWW RESISTOR	3.3Ω 5W K	D3208	MA8062/M/-X	Z DIODE	
R903	QRF104K-3R9	UNF VWW RESISTOR	3.9Ω 10W K	D3209	UDZS13B-X	Z DIODE	
R904	QRL039J-683	OMF RESISTOR	68kΩ 3W J	D3210	UDZS13B-X	Z DIODE	
R905	QRE121J-474Y	C RESISTOR	470kΩ 1/2W J	D3301	1SS355-X	SI DIODE	
R906	QRE121J-474Y	C RESISTOR	470kΩ 1/2W J	D3302	1SS355-X	SI DIODE	
R908	QRL039J-823	OMF RESISTOR	82kΩ 3W J	D3303	1SS355-X	SI DIODE	
R909	QRL039J-823	OMF RESISTOR	82kΩ 3W J	D3306	UDZS3.6B-X	Z DIODE	
R910	QRE121J-680Y	C RESISTOR	68Ω 1/2W J				
R911	QRE121J-332Y	C RESISTOR	3.3kΩ 1/2W J	C3106	QETN1HM-335Z	E CAPACITOR	3.3uF 50V M
R914	QRZ0237-R10	UNF VWW RESISTOR	0.1Ω	C3107	QETN1CM-107Z	E CAPACITOR	100uF 16V M
R915	QRE121J-681Y	C RESISTOR	680Ω 1/2W J	C3110	QETN2CM-106Z	E CAPACITOR	10uF 160V M
R916	QRE121J-152Y	C RESISTOR	1.5kΩ 1/2W J	C3111	QCB32HK-472Z	C CAPACITOR	4700pF 500V K
R944	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	C3113	QETN2CM-106Z	E CAPACITOR	10uF 160V M
R945	QRE141J-563Y	C RESISTOR	56kΩ 1/4W J	C3114	QCB32HK-472Z	C CAPACITOR	4700pF 500V K
R946	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J	C3116	QETN1AM-107Z	E CAPACITOR	100uF 10V M
R949	QRE141J-334Y	C RESISTOR	330kΩ 1/4W J	C3117	QETN1AM-107Z	E CAPACITOR	100uF 10V M
R951	QRE121J-222Y	C RESISTOR	2.2kΩ 1/2W J	C3118	QEHR1AM-337Z	E CAPACITOR	330uF 10V M
R952	QRL039J-223	OMF RESISTOR	22kΩ 3W J	C3120	NDC31HJ-561X	C CAPACITOR	560pF 50V J

### CRT SOCKET P.W. BOARD ASS'Y (SML-3301A-U2)

△Ref No.	Part No.	Part Name	Description Local
C3201	NDC31HJ-8R0X	C CAPACITOR	8pF 50V J
C3202	NDC31HJ-8R0X	C CAPACITOR	8pF 50V J
C3203	NDC31HJ-8R0X	C CAPACITOR	8pF 50V J
C3204	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3205	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3206	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3207	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C3208	QEHR1VM-476Z	E CAPACITOR	47uF 35V M
C3209	QEHR1VM-476Z	E CAPACITOR	47uF 35V M
C3210	QFKC2EK-104Z	MM CAPACITOR	0.1uF 250V K
C3211	QFKC2EK-104Z	MM CAPACITOR	0.1uF 250V K
C3212	QFKC2EK-104Z	MM CAPACITOR	0.1uF 250V K
C3213	NDC31HJ-181X	C CAPACITOR	180pF 50V J
C3214	NDC31HJ-181X	C CAPACITOR	180pF 50V J
C3215	NDC31HJ-181X	C CAPACITOR	180pF 50V J
C3216	QETN1CM-227Z	E CAPACITOR	220uF 16V M
C3218	QETM2EM-336	E CAPACITOR	33uF 250V M
C3219	QFZ0097-223	MM CAPACITOR	0.022uF 1.25KV M
C3221	QETN2EM-106Z	E CAPACITOR	10uF 250V M
C3222	QETN2EM-106Z	E CAPACITOR	10uF 250V M
C3223	QEHR2EM-106Z	E CAPACITOR	10uF 250V M
C3224	QETN2EM-106Z	E CAPACITOR	10uF 250V M
C3225	NDC31HJ-151X	C CAPACITOR	150pF 50V J
C3303	NCB31CK-563X	C CAPACITOR	0.056uF 16V K
R3103	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R3109	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R3112	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R3114	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R3115	NRSA63J-560X	MG RESISTOR	56Ω 1/16W J
R3116	QRG01GJ-101	OMF RESISTOR	100Ω 1W J
R3117	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R3122	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R3123	QRE121J-563Y	C RESISTOR	56kΩ 1/2W J
R3124	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
R3125	QRE121J-563Y	C RESISTOR	56kΩ 1/2W J
R3126	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
R3127	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R3128	NRSA63J-390X	MG RESISTOR	39Ω 1/16W J
R3129	QRE121J-2R7Y	C RESISTOR	2.7Ω 1/2W J
R3130	QRE121J-2R7Y	C RESISTOR	2.7Ω 1/2W J
R3131	NRSA63J-390X	MG RESISTOR	39Ω 1/16W J
R3132	NRSA63J-121X	MG RESISTOR	120Ω 1/16W J
R3133	QRL029J-681	OMF RESISTOR	680Ω 2W J
△R3134	QRZ902J-561	FUSI RESISTOR	560Ω 1W J
R3201	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R3202	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R3203	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R3208	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J
R3209	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R3218	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R3219	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R3220	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R3222	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R3223	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R3224	QRL029J-104-F	OMF RESISTOR	100kΩ 2W J
R3225	QRL029J-104-F	OMF RESISTOR	100kΩ 2W J
R3226	QRL029J-104-F	OMF RESISTOR	100kΩ 2W J
R3227	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R3228	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R3229	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R3230	QRZ0107-152Z	C RESISTOR	1.5kΩ 1/2W K
R3231	QRZ0107-152Z	C RESISTOR	1.5kΩ 1/2W K
R3232	QRZ0107-152Z	C RESISTOR	1.5kΩ 1/2W K
R3234	QRZ0107-474Z	C RESISTOR	470kΩ 1/2W K
R3235	QRZ0107-102Z	C RESISTOR	1kΩ 1/2W K
R3236	QRZ0107-105Z	C RESISTOR	1MΩ 1/2W K
R3237	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R3239	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R3240	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R3241	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R3242	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R3301	QRE121J-474Y	C RESISTOR	470kΩ 1/2W J
R3302	QRE121J-474Y	C RESISTOR	470kΩ 1/2W J
R3303	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R3304	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R3305	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R3306	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R3308	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R3311	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R3312	NRSA63J-120X	MG RESISTOR	12Ω 1/16W J
R3313	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
L3204	QQL26AJ-102Z	PEAKING COIL	1mH J
CN300G	QJK002-063231-E	SIN CR C-B WIRE	
CN300R	QJB003-093626-E	SIN ID C-B WIRE	

△Ref No.	Part No.	Part Name	Description Local
CN30E1	QGG8005C3-01	CONNECTOR	(1-1)
CN30SC	QGG0017C1-01Z	CONNECTOR	(1-1)
K3101	QQR1114-001Z	FERRITE BEADS	
K3103	QQR1114-001Z	FERRITE BEADS	
K3104	QQR1114-001Z	FERRITE BEADS	
K3105	QQR0621-002Z	FERRITE BEADS	
K3202	QQR1113-001Z	FERRITE BEADS	
SG3201	QAF0056-501Z	SURGE ABSORBER	500V M
SG3202	QAF0056-501Z	SURGE ABSORBER	500V M
SG3203	QAF0056-501Z	SURGE ABSORBER	500V M
△SK3001	QNZ0536-001	CRT SOCKET	

## SIDE CONTROL P.W. BOARD ASS'Y (SML-8131A-U2)

REFER TO PARTS LIST IN PAGE 3-12 FOR THIS P.W. BOARD.

## FRONT CONTROL P.W. BOARD ASS'Y (SML-8301A-U2)

REFER TO PARTS LIST IN PAGE 3-12 FOR THIS P.W. BOARD.

## AV JACK P.W. BOARD ASS'Y (SML0J301A-U2)

REFER TO PARTS LIST IN PAGE 3-13 FOR THIS P.W. BOARD.

## 100HZ P.W. BOARD ASS'Y (SML0Z301A-U2)

REFER TO PARTS LIST IN PAGE 3-13 FOR THIS P.W. BOARD.

# PRINTED WIRING BOARD PARTS LIST [AV-32H5SK]

## MAIN P.W. BOARD ASS'Y (SML-1931A-U2)

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
IC101	MSP3415GQGB8V3M	IC	(SERVICE)	C105	QETN1HM-106Z	E CAPACITOR	10uF 50V M
IC201	CXA2089Q-X	IC		C106	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
IC501	LM324D-X	IC		C107	QETN1CM-107Z	E CAPACITOR	100uF 16V M
IC551	LA6515	IC		C108	QETN1HM-105Z	E CAPACITOR	1uF 50V M
IC601	AN5277	IC		C109	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
IC701	ATE32-32H5SK	IC		C110	QETN1HM-106Z	E CAPACITOR	10uF 50V M
IC901	AN78L08-T	IC		C111	NCB21CK-105X	C CAPACITOR	1uF 16V K
IC902	MM1565AF-X	IC		C112	NCB21CK-105X	C CAPACITOR	1uF 16V K
IC903	L7809CP	IC		C113	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
Q002	2SC3928A/QR/-X	TRANSISTOR		C114	QETN1HM-106Z	E CAPACITOR	10uF 50V M
Q101	UN2213-X	DIGI TRANSISTOR		C115	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
Q201	2SC3928A/QR/-X	TRANSISTOR		C116	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
Q202	2SC3928A/QR/-X	TRANSISTOR		C117	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q207	UN2226-X	DIGI TRANSISTOR		C118	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q210	2SA1530A/QR/-X	TRANSISTOR		C119	NDC31HJ-2R0X	C CAPACITOR	2pF 50V J
Q211	UN2226-X	DIGI TRANSISTOR		C120	NDC31HJ-2R0X	C CAPACITOR	2pF 50V J
Q212	2SA1530A/QR/-X	TRANSISTOR		C121	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q213	UN2226-X	DIGI TRANSISTOR		C122	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
Q214	UN2226-X	DIGI TRANSISTOR		C123	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
Q215	KTA1267/YG/-T	TRANSISTOR		C124	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
Q216	2SC3928A/QR/-X	TRANSISTOR		C201	QETN1HM-106Z	E CAPACITOR	10uF 50V M
Q217	KTC3199/YG/-T	TRANSISTOR		C202	QETN1HM-106Z	E CAPACITOR	10uF 50V M
Q219	2SC3928A/QR/-X	TRANSISTOR		C203	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q305	KTC3199/YG/-T	TRANSISTOR		C204	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
Q501	2SC3928A/QR/-X	TRANSISTOR		C205	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
Q502	2SC3928A/QR/-X	TRANSISTOR		C206	QETN1HM-106Z	E CAPACITOR	10uF 50V M
Q604	2SA1530A/QR/-X	TRANSISTOR		C207	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
Q605	2SC3928A/QR/-X	TRANSISTOR		C209	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
Q606	2SC3928A/QR/-X	TRANSISTOR		C210	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q609	2SA1530A/QR/-X	TRANSISTOR		C213	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
Q610	UN2226-X	DIGI TRANSISTOR		C215	QETN1HM-106Z	E CAPACITOR	10uF 50V M
Q611	UN2226-X	DIGI TRANSISTOR		C216	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
Q701	2SA1530A/QR/-X	TRANSISTOR		C220	QETN1HM-106Z	E CAPACITOR	10uF 50V M
Q702	2SC3928A/QR/-X	TRANSISTOR		C221	QETN1HM-106Z	E CAPACITOR	10uF 50V M
				C222	QETN1HM-106Z	E CAPACITOR	10uF 50V M
				C223	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
				C224	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
				C225	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D201	UDZS12B-X	Z DIODE		C226	QETN1HM-106Z	E CAPACITOR	10uF 50V M
D202	UDZS12B-X	Z DIODE		C227	QETN1HM-106Z	E CAPACITOR	10uF 50V M
D203	UDZS12B-X	Z DIODE		C228	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D204	UDZS12B-X	Z DIODE		C229	QETN1HM-106Z	E CAPACITOR	10uF 50V M
D205	UDZS12B-X	Z DIODE		C230	QENC1EM-106Z	BP E CAPACITOR	10uF 25V M
D206	UDZS12B-X	Z DIODE		C231	QENC1EM-106Z	BP E CAPACITOR	10uF 25V M
D207	UDZS12B-X	Z DIODE		C232	QETN1CM-107Z	E CAPACITOR	100uF 16V M
D208	UDZS12B-X	Z DIODE		C233	QETN1CM-107Z	E CAPACITOR	100uF 16V M
D209	UDZS12B-X	Z DIODE		C234	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D210	UDZS12B-X	Z DIODE		C235	QETN1CM-107Z	E CAPACITOR	100uF 16V M
D211	UDZS12B-X	Z DIODE		C236	QETN1CM-477Z	E CAPACITOR	470uF 16V M
D212	UDZS12B-X	Z DIODE		C237	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
D213	UDZS15B-X	Z DIODE		C238	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
D214	UDZS15B-X	Z DIODE		C239	QETN1CM-477Z	E CAPACITOR	470uF 16V M
D501	1SS355-X	SI DIODE		C303	QETN1CM-227Z	E CAPACITOR	220uF 16V M
D502	1SS355-X	SI DIODE		C304	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D503	1SS355-X	SI DIODE		C308	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
D504	1SS355-X	SI DIODE		C310	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
D604	1SS355-X	SI DIODE		C503	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
D605	1SS355-X	SI DIODE		C504	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
D606	1SS355-X	SI DIODE		C505	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
D607	1SS355-X	SI DIODE		C506	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
D701	UDZS5.6B-X	Z DIODE	1.5kΩ 1/10W J	C507	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
D702	UDZS5.6B-X	Z DIODE	1.5kΩ 1/10W J	C508	QETN1CM-107Z	E CAPACITOR	100uF 16V M
D703	UDZS5.6B-X	Z DIODE	1.5kΩ 1/10W J	C509	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
D704	UDZS5.6B-X	Z DIODE	1.5kΩ 1/10W J	C510	NCB31EK-333X	C CAPACITOR	0.033uF 25V K
D705	1SS355-X	SI DIODE		C515	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D981	1SS355-X	SI DIODE		C551	NCF31CZ-224X	C CAPACITOR	0.22uF 16V Z
D982	1SS355-X	SI DIODE		C552	NCF31CZ-224X	C CAPACITOR	0.22uF 16V Z
D983	1SS355-X	SI DIODE		C553	QETN1EM-476Z	E CAPACITOR	47uF 25V M
				C554	NCF31CZ-224X	C CAPACITOR	0.22uF 16V Z
				C555	NCF31CZ-224X	C CAPACITOR	0.22uF 16V Z
C001	NCB31HK-222X	C CAPACITOR	2200pF 50V K	C561	NDC31HJ-390X	C CAPACITOR	39pF 50V J
C002	QETN1HM-106Z	E CAPACITOR	10uF 50V M	C612	NCB31HK-272X	C CAPACITOR	2700pF 50V K
C004	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C613	NCB31HK-272X	C CAPACITOR	2700pF 50V K
C005	QETN1CM-108Z	E CAPACITOR	1000uF 16V M	C614	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C006	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C615	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C007	QETN1HM-106Z	E CAPACITOR	10uF 50V M	C619	QETM1VM-228	E CAPACITOR	2200uF 35V M
C008	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C622	QETN1EM-108Z	E CAPACITOR	1000uF 25V M
C009	QETN1HM-106Z	E CAPACITOR	10uF 50V M	C623	QETN1EM-108Z	E CAPACITOR	1000uF 25V M
C011	QETN1HM-106Z	E CAPACITOR	10uF 50V M	C624	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C012	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C626	QETN1EM-108Z	E CAPACITOR	1000uF 25V M
C013	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C627	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C101	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C629	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C102	QETN1HM-106Z	E CAPACITOR	10uF 50V M	C630	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C103	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C631	NCB31HK-102X	C CAPACITOR	1000pF 50V K
C104	QETN1CM-107Z	E CAPACITOR	100uF 16V M				

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
C632	NCB31HK-102X	C CAPACITOR	1000pF 50V K	R277	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C633	QETN1HM-107Z	E CAPACITOR	100uF 50V M	R278	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
C636	NCB31CK-105X	C CAPACITOR	1uF 16V K	R279	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
C637	NCB31CK-105X	C CAPACITOR	1uF 16V K	R280	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
C701	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R281	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C702	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R282	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C711	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R283	QRG01GJ-101	OMF RESISTOR	100Ω 1/16W J
C901	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R284	QRK126J-181X	UNF C RESISTOR	180Ω 1/2W J
C902	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R285	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C903	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R286	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C904	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	R287	QRK126J-151X	UNF C RESISTOR	150Ω 1/2W J
C905	QETN1HM-106Z	E CAPACITOR	100uF 50V M	R288	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
C906	NCB20JK-225X	C CAPACITOR	2.2uF 6.3V K	R289	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C907	NDC31HJ-471X	C CAPACITOR	470pF 50V J	R290	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C908	QETN1AM-477Z	E CAPACITOR	470uF 10V M	R291	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
C909	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R292	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
C910	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R293	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
				R294	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R002	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R295	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R003	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R296	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R006	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R297	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R007	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R298	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R008	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R313	QRK126J-331X	UNF C RESISTOR	330Ω 1/2W J
R011	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R315	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R101	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R316	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
R102	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R317	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R103	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R501	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R201	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R502	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R202	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R503	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R205	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	R504	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R206	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	R505	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J
R208	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R506	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R209	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R507	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R210	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R509	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R211	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R510	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
R212	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R511	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R213	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R512	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R214	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R513	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R215	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R514	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
R216	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R515	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R217	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R516	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R218	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R517	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R220	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	R518	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R221	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	R519	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R222	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	R520	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R226	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	R521	NRSA63J-473X	MG RESISTOR	4.7kΩ 1/16W J
R227	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	R523	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R229	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	R524	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R232	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	R525	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R233	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	R526	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R234	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R527	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
R235	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R528	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R236	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R529	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J
R237	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R530	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
R238	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R531	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R239	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R532	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R240	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R533	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R241	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R536	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R242	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R537	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R243	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R551	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J
R244	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R552	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J
R245	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R553	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
R246	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R554	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R247	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R555	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J
R249	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R556	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R251	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	R557	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J
R253	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	R558	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R255	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	R559	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R258	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	R560	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R259	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	R615	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R260	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	R616	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R261	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	R617	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R262	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	R620	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R263	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	R621	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R264	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R622	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R265	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R625	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J
R266	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R629	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R267	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R630	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R268	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R631	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R269	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R632	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R270	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R635	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
R271	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R637	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R272	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R638	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R273	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R639	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R274	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R640	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J
R275	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	R641	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R276	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	R642	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J



△Ref No.	Part No.	Part Name	Description Local
R643	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R644	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R645	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R702	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R703	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R704	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R705	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R706	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R707	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R708	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R709	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R710	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
L001	QQL244K-270Z	PEAKING COIL	27uH K
L002	QQL244K-100Z	PEAKING COIL	10uH K
L003	QQL244K-100Z	PEAKING COIL	10uH K
L101	QQL244K-4R7Z	PEAKING COIL	4.7uH K
CN001	QGB1505J1-35	CONNECTOR	B-B (1-35)
CN002	QGC2507C1-96	CONNECTOR	(1-96)
CN003	QGB1506L1-16	CONNECTOR	B-B (1-16)
CN004	QGB1506L1-16	CONNECTOR	B-B (1-16)
CN00B	QJK002-041614-E	SIN CR C-B WIRE	
J601	QNN0596-001	PIN JACK	AUDIO OUT
K001	NQR0129-004X	FERRITE BEADS	
K101	NQR0389-003X	FERRITE BEADS	
K102	NQR0389-003X	FERRITE BEADS	
K551	QQR0621-002Z	FERRITE BEADS	
K552	QQR0621-002Z	FERRITE BEADS	
K601	NQR0199-001X	FERRITE BEADS	
K602	NQR0199-001X	FERRITE BEADS	
LC101	NQR0431-001X	EMI FILTER	0.22uF 50V Z
△TU001	QAU0277-001	TUNER	
X101	QAX0773-001Z	CRYSTAL	18.432000MHz

#### POWER & DEF P.W. BOARD ASS'Y (SML-2301A-S2)

REFER TO PARTS LIST IN PAGE 3-24 FOR THIS P.W. BOARD.

#### CRT SOCKET P.W. BOARD ASS'Y (SML-3301A-U2)

REFER TO PARTS LIST IN PAGE 3-25 FOR THIS P.W. BOARD.

#### SIDE CONTROL P.W. BOARD ASS'Y (SML-8131A-U2)

REFER TO PARTS LIST IN PAGE 3-12 FOR THIS P.W. BOARD.

#### FRONT CONTROL P.W. BOARD ASS'Y (SML-8301A-U2)

REFER TO PARTS LIST IN PAGE 3-12 FOR THIS P.W. BOARD.

#### AV JACK P.W. BOARD ASS'Y (SML0J301A-U2)

REFER TO PARTS LIST IN PAGE 3-13 FOR THIS P.W. BOARD.

#### 100HZ P.W. BOARD ASS'Y (SML0Z301A-U2)

REFER TO PARTS LIST IN PAGE 3-13 FOR THIS P.W. BOARD.

# PRINTED WIRING BOARD PARTS LIST [AV-32H5SR]

## MAIN P.W. BOARD ASS'Y (SML-1301A-U2)

REFER TO PARTS LIST IN PAGE 3-22 FOR THIS P.W. BOARD.

## POWER & DEF P.W. BOARD ASS'Y (SML-2301A-U2)

△Ref No.	Part No.	Part Name	Description Local
IC401	LA78041	IC	
IC461	LM393P	IC	
IC901	STR-G9656-F3	IC	
△IC941	QAL0515-001	POWER TRANSF	
IC951	SE140N	IC	
IC961	PQ120RDA1SZ	IC	
Q461	RDN050N20	POWER MOS FET	
Q462	KTC3199/YG/-T	TRANSISTOR	
Q463	KTC3199/YG/-T	TRANSISTOR	
Q464	KTA1267/YG/-T	TRANSISTOR	
Q481	DTC124ESA-T	DIGI TRANSISTOR	
Q482	KTC3199/YG/-T	TRANSISTOR	
Q501	BSN304-T	MOS FET	
△Q521	2SC5905-RL	POW TRANSISTOR	H. OUT
Q581	2SA1208/ST/Z1-T	TRANSISTOR	
Q582	DTC144ESA-T	DIGI TRANSISTOR	
Q583	KTC3199/YG/-T	TRANSISTOR	
Q941	KTC3199/YG/-T	TRANSISTOR	
Q942	KTC3199/YG/-T	TRANSISTOR	
D402	1SR35-400A-T2	SI DIODE	
D461	FR105GT-T3	SI DIODE	
D462	1SS133-T2	SI DIODE	
D463	1SS133-T2	SI DIODE	
D481	1SS133-T2	SI DIODE	
D501	1SS244-T2	SI DIODE	
D521	V11CA-C1	SI DIODE	
D522	FMV-3FU-F1	SI DIODE	
D523	MTZJ22B-T2	Z DIODE	
D525	FR105GT-T3	SI DIODE	
D541	FR105GT-T3	SI DIODE	
D542	MTZJ3.9B-T2	Z DIODE	
D551	FR105GT-T3	SI DIODE	
D552	FR105GT-T3	SI DIODE	
D553	FR105GT-T3	SI DIODE	
D582	MTZJ7.5B-T2	Z DIODE	
D583	MTZJ7.5S-T2	Z DIODE	
D584	FR105GT-T3	SI DIODE	
D901	D3SBA60	DIODE	
D902	FR107GT-T3	SI DIODE	
D904	FR105GT-T3	SI DIODE	
D905	1SS133-T2	SI DIODE	
D906	MTZJ27B-T2	Z DIODE	
D907	1SS133-T2	SI DIODE	
D910	MTZJ15B-T2	Z DIODE	
D911	1SS133-T2	SI DIODE	
D931	S1WB/A60-4101	BRIDGE DIODE	
D945	1SS133-T2	SI DIODE	
D951	RU4AM-LFT2	SI DIODE	
D952	RU4AM-LFT2	SI DIODE	
D953	FR105GT-T3	SI DIODE	
D954	HER202G-FL	SI DIODE	
D956	FSF05A20	SI DIODE	
D958	MTZJ33B-T2	Z DIODE	
D959	1SS133-T2	SI DIODE	
D981	1SS133-T2	SI DIODE	
D983	1SS133-T2	SI DIODE	
C404	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J
C405	QDC31HJ-820Z	C CAPACITOR	82pF 50V J
C406	QETM1VM-108	E CAPACITOR	1000uF 35V M
C408	QETN1VM-337Z	E CAPACITOR	330uF 35V M
C409	QFVF1HJ-474Z	MF CAPACITOR	0.47uF 50V J
C410	QFVF1HJ-474Z	MF CAPACITOR	0.47uF 50V J
C411	QFLC2AJ-104Z	M CAPACITOR	0.1uF 100V J
C414	QCB31HK-682Z	C CAPACITOR	6800pF 50V K
C415	QDC31HJ-470Z	C CAPACITOR	47pF 50V J
C461	QEZ0414-226	BP E CAPACITOR	22uF 50V M
C462	QFN32DJ-152Z	M CAPACITOR	1500pF 200V J
C463	QFN32DJ-152Z	M CAPACITOR	1500pF 200V J
C464	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J
C465	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C466	QFP31HJ-272Z	PP CAPACITOR	2700pF 50V J
C467	QFLC1HJ-102Z	M CAPACITOR	1000pF 50V J
C468	QETN1EM-476Z	E CAPACITOR	47uF 25V M

△Ref No.	Part No.	Part Name	Description Local
C470	QCS31HJ-470Z	C CAPACITOR	47pF 50V J
C471	QFLC1HJ-103Z	M CAPACITOR	0.01uF 50V J
C481	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C501	QCB32HK-331Z	C CAPACITOR	330pF 500V K
C502	QFN32DK-103	M CAPACITOR	0.01uF 200V K
C503	QFVF1HJ-224Z	MF CAPACITOR	0.22uF 50V J
C521	QFZ0122-112	MPP CAPACITOR	1100pF 1.8kV H
C522	QFZ0196-113	MPP CAPACITOR	0.011uF 1.5kV H
C523	QFN32DJ-393	M CAPACITOR	0.039uF 200V J
C524	QFP32GJ-223	PP CAPACITOR	0.022uF 400V J
C526	QFZ0197-204	MPP CAPACITOR	0.2uF 250V J
C527	QFZ0197-823	MPP CAPACITOR	0.082uF 250V J
C529	QFZ0197-184	MPP CAPACITOR	0.18uF 250V J
C530	QCB32HK-561Z	C CAPACITOR	560pF 500V K
C531	QFZ0194-534	MPP CAPACITOR	0.53uF 250V J
C532	QETM2CM-227	E CAPACITOR	220uF 160V M
C533	QETN2EM-475Z	E CAPACITOR	4.7uF 250V M
C541	QFVF1HJ-105Z	MF CAPACITOR	1uF 50V J
C551	QCB32HK-152Z	C CAPACITOR	1500pF 500V K
C552	QETN1CM-108Z	E CAPACITOR	1000uF 16V M
C553	QCB32HK-152Z	C CAPACITOR	1500pF 500V K
C554	QETN1CM-108Z	E CAPACITOR	1000uF 16V M
C555	QCB32HK-102Z	C CAPACITOR	1000pF 500V K
C556	QETN2EM-106Z	E CAPACITOR	10uF 250V M
C558	QETN1CM-477Z	E CAPACITOR	470uF 16V M
C581	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C582	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C583	QETN2AM-106Z	E CAPACITOR	10uF 100V M
C584	QETN1AM-227Z	E CAPACITOR	220uF 10V M
△C901	QFZ9072-473	MM CAPACITOR	0.047uF AC250V K
△C902	QFZ9072-104	MM CAPACITOR	0.1uF AC250V K
△C903	QFZ9072-473	MM CAPACITOR	0.047uF AC250V K
△C904	QCZ9054-472	C CAPACITOR	4700pF AC250V Z
△C905	QCZ9054-472	C CAPACITOR	4700pF AC250V Z
△C906	QCZ9054-472	C CAPACITOR	4700pF AC250V Z
C907	QEZ0649-227	E CAPACITOR	220uF 400V M
C908	QCB32HK-103	C CAPACITOR	0.01uF 500V K
C909	QCZ0340-391	C CAPACITOR	390pF 2kV K
C910	QETN1HM-476Z	E CAPACITOR	47uF 50V M
C911	QCB31HK-102Z	C CAPACITOR	1000pF 50V K
C912	QCZ0340-561	C CAPACITOR	560pF 2kV K
C914	QCB31HK-471Z	C CAPACITOR	470pF 50V K
C915	QFLC1HJ-104Z	M CAPACITOR	0.1uF 50V J
C916	QCB32HK-152Z	C CAPACITOR	1500pF 500V K
△C931	QCZ9054-472	C CAPACITOR	4700pF AC250V Z
△C932	QCZ9054-472	C CAPACITOR	4700pF AC250V Z
△C933	QCZ9054-472	C CAPACITOR	4700pF AC250V Z
C934	QEZ0632-226	E CAPACITOR	22uF 400V M
C941	QTMN1CM-477Z	E CAPACITOR	470uF 16V M
C942	QETN1AM-337Z	E CAPACITOR	330uF 10V M
C951	QEZ0203-227	E CAPACITOR	220uF 160V M
C952	QEZ0255-228	E CAPACITOR	2200uF 16V M
C953	QETN1CM-108Z	E CAPACITOR	1000uF 16V M
C954	QETM1VM-228	E CAPACITOR	2200uF 35V M
C956	QETM1AM-338	E CAPACITOR	3300uF 10V M
C959	QFVF1HJ-684Z	MF CAPACITOR	0.68uF 50V J
C960	QCZ0325-821	C CAPACITOR	820pF 2kV K
C968	QETM1AM-338	E CAPACITOR	3300uF 10V M
C991	QCZ9079-102	C CAPACITOR	1000pF AC250V M
C993	QCZ9079-222	C CAPACITOR	2200pF AC250V M
R401	QRE141J-562Y	C RESISTOR	5.6kΩ 1/4W J
R402	QRE141J-562Y	C RESISTOR	5.6kΩ 1/4W J
R403	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J
R404	QRX01GJ-1R0	MF RESISTOR	1Ω 1W J
R405	QRL029J-151	OMF RESISTOR	150Ω 2W J
R406	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J
R407	QRX01GJ-1R5	MF RESISTOR	1.5Ω 1W J
R408	QRX01GJ-1R5	MF RESISTOR	1.5Ω 1W J
R409	QRE141J-823Y	C RESISTOR	82kΩ 1/4W J
R410	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J
R461	QRG029J-820	OMF RESISTOR	82Ω 2W J
R462	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J
R463	QRE141J-682Y	C RESISTOR	6.8kΩ 1/4W J
R464	QRX01GJ-3R3	MF RESISTOR	3.3Ω 1W J
R468	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J
R469	QRE141J-272Y	C RESISTOR	2.7kΩ 1/4W J
R471	QRE141J-391Y	C RESISTOR	390Ω 1/4W J
R472	QRA14CF-1002Y	CMF RESISTOR	10kΩ 1/4W F
R473	QRE141J-473Y	C RESISTOR	47kΩ 1/4W J
R474	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J
R475	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J
R476	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J
R477	QRE141J-563Y	C RESISTOR	56kΩ 1/4W J

△Ref No.	Part No.	Part Name	Description Local
R478	QRE141J-333Y	C RESISTOR	33kΩ 1/4W J
R481	QRE141J-224Y	C RESISTOR	220kΩ 1/4W J
R482	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J
R501	QRE141J-471Y	C RESISTOR	470Ω 1/4W J
R502	QRE141J-123Y	C RESISTOR	12kΩ 1/4W J
R503	QRE121J-152Y	C RESISTOR	1.5kΩ 1/2W J
R504	QRL039J-222	OMF RESISTOR	2.2kΩ 3W J
R505	QRL039J-222	OMF RESISTOR	2.2kΩ 3W J
R506	QRE121J-5R6Y	C RESISTOR	5.6Ω 1/2W J
R521	QRE121J-471Y	C RESISTOR	470Ω 1/2W J
R522	QRE141J-333Y	C RESISTOR	33kΩ 1/4W J
R523	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J
R524	QRC121K-152Z	COMP RESISTOR	1.5kΩ 1/2W K
R525	QRL039J-103	OMF RESISTOR	10kΩ 3W J
R541	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J
R542	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J
R543	QRE121J-272Y	C RESISTOR	2.7kΩ 1/2W J
R551	QRT039J-3R3	MF RESISTOR	3.3Ω 3W J
R552	QRT039J-3R3	MF RESISTOR	3.3Ω 3W J
R581	QRF154K-4R7	UNF WW RESISTOR	4.7Ω 15W K
R582	QRE141J-681Y	C RESISTOR	680Ω 1/4W J
R583	QRE121J-682Y	C RESISTOR	6.8kΩ 1/2W J
R584	QRE141J-183Y	C RESISTOR	18kΩ 1/4W J
R585	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J
R586	QRA14CF-7501Y	CMF RESISTOR	7.5kΩ 1/4W F
R587	QRA14CF-2201Y	CMF RESISTOR	2.2kΩ 1/4W F
R588	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J
△R591	QRZ9017-4R7	FUSI RESISTOR	4.7Ω 1/4W J
R901	QRE121J-331Y	C RESISTOR	330Ω 1/2W J
R902	QRF054K-3R3	UNF WW RESISTOR	3.3Ω 5W K
R903	QRF104K-3R9	UNF WW RESISTOR	3.9Ω 10W K
R904	QRL039J-683	OMF RESISTOR	68kΩ 3W J
R905	QRE121J-474Y	C RESISTOR	470kΩ 1/2W J
R906	QRE121J-474Y	C RESISTOR	470kΩ 1/2W J
R908	QRL039J-823	OMF RESISTOR	82kΩ 3W J
R909	QRL039J-823	OMF RESISTOR	82kΩ 3W J
R910	QRE121J-680Y	C RESISTOR	68Ω 1/2W J
R911	QRE121J-332Y	C RESISTOR	3.3kΩ 1/2W J
R914	QRZ0237-R10	UNF WW RESISTOR	0.1Ω
R915	QRE121J-681Y	C RESISTOR	680Ω 1/2W J
R916	QRE121J-152Y	C RESISTOR	1.5kΩ 1/2W J
R944	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J
R945	QRE141J-563Y	C RESISTOR	56kΩ 1/4W J
R946	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J
R949	QRE141J-334Y	C RESISTOR	330kΩ 1/4W J
R951	QRE121J-222Y	C RESISTOR	2.2kΩ 1/2W J
R952	QRL039J-223	OMF RESISTOR	22kΩ 3W J
R953	QRT039J-R33	MF RESISTOR	0.33Ω 3W J
R981	QRE141J-153Y	C RESISTOR	15kΩ 1/4W J
R982	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J
△R991	QRZ9046-825Z	C RESISTOR	8.2MΩ 1/2W K
R992	QRZ9046-105Z	C RESISTOR	1MΩ 1/2W K
L461	QQR1195-001	CHOKE COIL	
L462	QQR1422-001	CHOKE COIL	
L521	QQLZ031-180	CHOKE COIL	18uH
L522	QQR1191-002	LINEARITY COIL	
L551	QQLZ026-540	COIL	54uH A)7%
L901	QQL401K-100Z	CHOKE COIL	10uH K
L902	QQL401K-100Z	CHOKE COIL	10uH K
△L903	QQR1200-001	CHOKE COIL	
L941	QQL26AM-4R7Z	CHOKE COIL	4.7uH M
L942	QQL26AK-220Z	CHOKE COIL	22uH K
L951	QQLZ026-460	COIL	46uH A)7%
T501	QQR1111-001	LINEARITY COIL	
△T901	QQS0258-001	SW TRANSF	
CN003	QGB1506M1-16	CONNECTOR	B-B (1-16)
CN004	QGB1506M1-16	CONNECTOR	B-B (1-16)
CN0HV	QGZ8005C3-05	CONNECTOR	(1-5)
△CP931	QMFZ052-2R0-E	FUSE	2A AC250V
△CP951	ICP-N75-T	IC PROTECTOR	2.7A
△CP952	ICP-N75-T	IC PROTECTOR	2.7A
△CP954	ICP-N75-T	IC PROTECTOR	2.7A
K401	QQR0621-002Z	FERRITE BEADS	
K522	QQR1114-001Z	FERRITE BEADS	
K523	QQR1114-001Z	FERRITE BEADS	
K524	QQR1114-001Z	FERRITE BEADS	
K901	QQR1113-001Z	FERRITE BEADS	
K952	QQR0621-002Z	FERRITE BEADS	
K953	QQR0621-002Z	FERRITE BEADS	
K955	QQR0621-002Z	FERRITE BEADS	
△LF901	QQR1095-001	LINE FILTER	
△PC901	PC123Y22FZ	PHOTO COUPLER	
△RY941	QSK0099-001	RELAY	
△TH901	QAD0121-9R0	P THERMISTOR	9Ω

## CRT SOCKET P.W. BOARD ASS'Y (SML-3301A-U2)

REFER TO PARTS LIST IN PAGE 3-25 FOR THIS P.W. BOARD.

## SIDE CONTROL P.W. BOARD ASS'Y (SML-8131A-U2)

REFER TO PARTS LIST IN PAGE 3-12 FOR THIS P.W. BOARD.

## FRONT CONTROL P.W. BOARD ASS'Y (SML-8301A-U2)

REFER TO PARTS LIST IN PAGE 3-12 FOR THIS P.W. BOARD.

## AV JACK P.W. BOARD ASS'Y (SML0J301A-U2)

REFER TO PARTS LIST IN PAGE 3-13 FOR THIS P.W. BOARD.

## 100HZ P.W. BOARD ASS'Y (SML0Z301A-U2)

REFER TO PARTS LIST IN PAGE 3-13 FOR THIS P.W. BOARD.

PRINTED WIRING BOARD PARTS LIST [AV-32H50SU]

MAIN P.W. BOARD ASS'Y (SML-1301A-U2)	REFER TO PARTS LIST IN PAGE 3-21 FOR THIS P.W. BOARD.
REFER TO PARTS LIST IN PAGE 3-22 FOR THIS P.W. BOARD.	
POWER & DEF P.W. BOARD ASS'Y (SML-2301A-S2)	FRONT CONTROL P.W. BOARD ASS'Y (SML-8302A-U2)
REFER TO PARTS LIST IN PAGE 3-24 FOR THIS P.W. BOARD.	REFER TO PARTS LIST IN PAGE 3-21 FOR THIS P.W. BOARD.
CRT SOCKET P.W. BOARD ASS'Y (SML-3301A-U2)	AV JACK P.W. BOARD ASS'Y (SML0J301A-U2)
REFER TO PARTS LIST IN PAGE 3-25 FOR THIS P.W. BOARD.	REFER TO PARTS LIST IN PAGE 3-13 FOR THIS P.W. BOARD.
SIDE CONTROL P.W. BOARD ASS'Y (SML-8133A-U2)	100HZ P.W. BOARD ASS'Y (SML0Z301A-U2)
	REFER TO PARTS LIST IN PAGE 3-13 FOR THIS P.W. BOARD.

PRINTED WIRING BOARD PARTS LIST [AV-32H57SU]

MAIN P.W. BOARD ASS'Y (SML-1301A-U2)	REFER TO PARTS LIST IN PAGE 3-21 FOR THIS P.W. BOARD.
REFER TO PARTS LIST IN PAGE 3-22 FOR THIS P.W. BOARD.	
POWER & DEF P.W. BOARD ASS'Y (SML-2301A-U2)	FRONT CONTROL P.W. BOARD ASS'Y (SML-8302A-U2)
REFER TO PARTS LIST IN PAGE 3-29 FOR THIS P.W. BOARD.	REFER TO PARTS LIST IN PAGE 3-21 FOR THIS P.W. BOARD.
CRT SOCKET P.W. BOARD ASS'Y (SML-3301A-U2)	AV JACK P.W. BOARD ASS'Y (SML0J301A-U2)
REFER TO PARTS LIST IN PAGE 3-25 FOR THIS P.W. BOARD.	REFER TO PARTS LIST IN PAGE 3-13 FOR THIS P.W. BOARD.
SIDE CONTROL P.W. BOARD ASS'Y (SML-8133A-U2)	100HZ P.W. BOARD ASS'Y (SML0Z301A-U2)
	REFER TO PARTS LIST IN PAGE 3-13 FOR THIS P.W. BOARD.

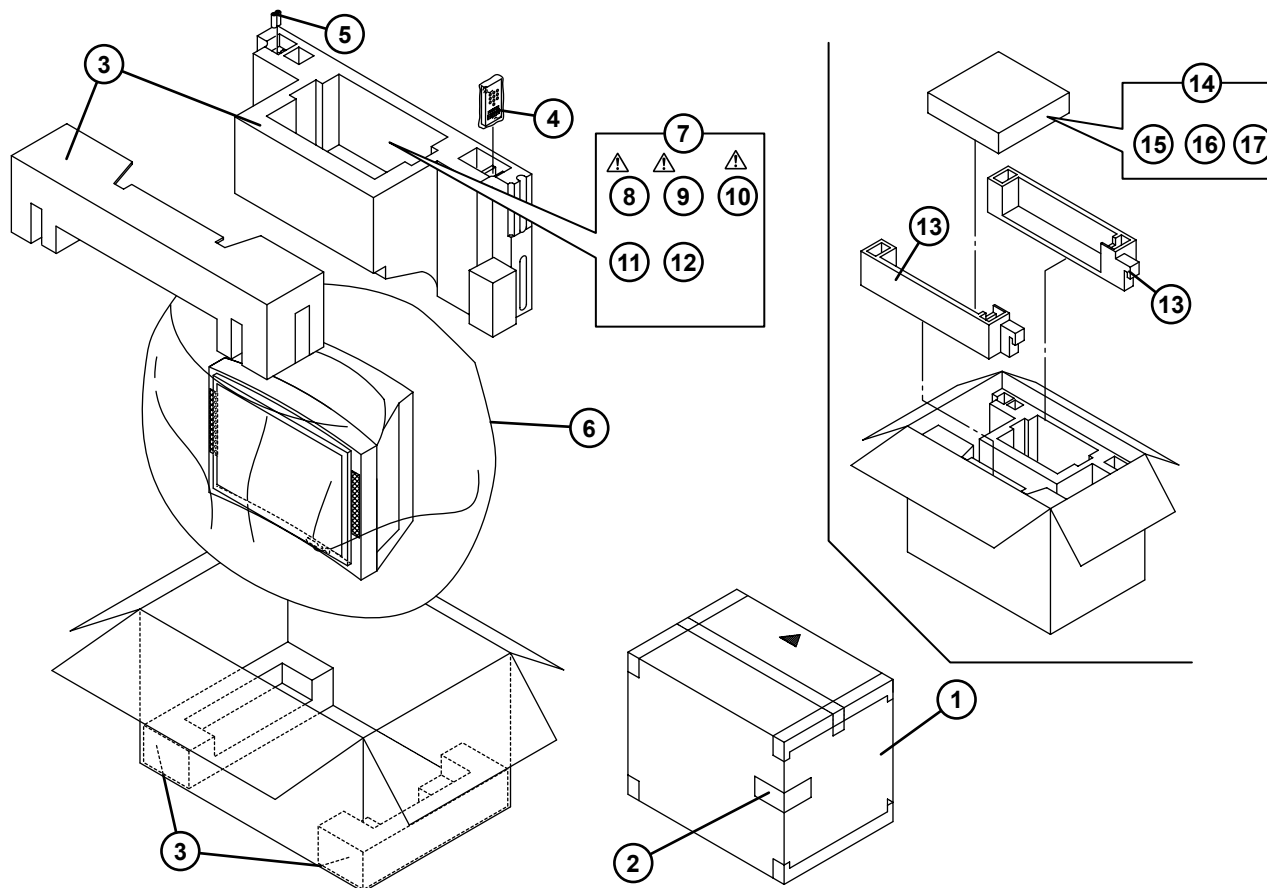
REMOTE CONTROL UNIT PARTS LIST [RM-C1502-1C]

△ Ref No.	Part No.	Part Name	Description	Local
	2AK061080	BATTERY COVER	AV-28H5SK,AV-28H5SL, AV28H5SR, AV-28H5SU,AV-28H50SU,AV-32H5SK,AV-32H5SR,AV-32H5SU, AV-32H50SU,AV-32H57SU	

REMOTE CONTROL UNIT PARTS LIST [RM-C1502B-1C]

△ Ref No.	Part No.	Part Name	Description	Local
	2AK044990	BATTERY COVER	AV-28H5BL,AV-28H5BU,AV-32H5BU	

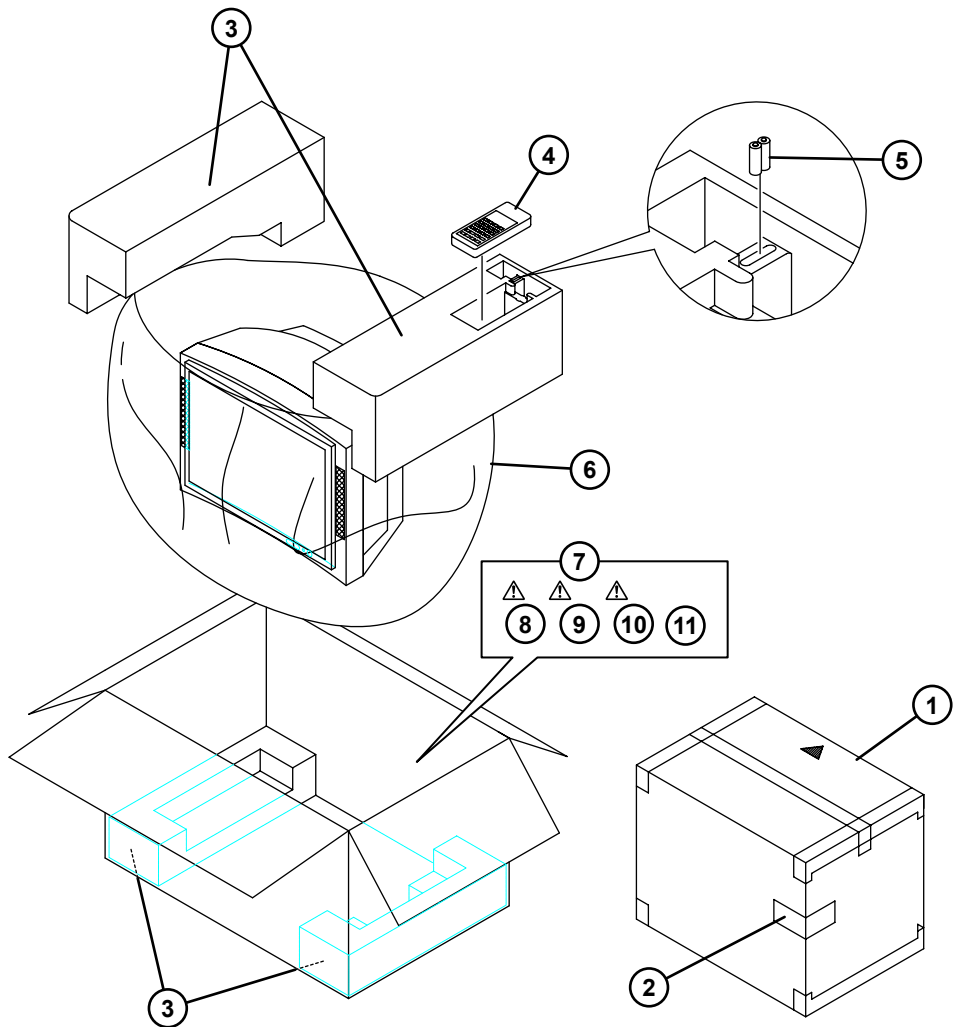
## PACKING -1



## PACKING PARTS LIST -1

△	Ref.No.	Part No.	Part Name	Description	Local
	1	GA10002-001A-U	PACKING CASE		AV-28H5SK
	1	GA10002-003A-U	PACKING CASE		AV-28H5BL, AV-28H5BU, AV-28H5SL, AV-28H5SR, AV-28H5SU
	1	GA10002-002A-U	PACKING CASE		AV-32H5SK
	1	GA10002-004A-U	PACKING CASE		AV-32H5BU, AV-32H5SR, AV-32H5SU
	2	GA10001-071A-U	EURO LABEL		AV-28H5BL
	2	GA10001-017A-U	EURO LABEL		AV-28H5BU
	2	GA10001-021A-U	EURO LABEL		AV-28H5SK
	2	GA10001-070A-U	EURO LABEL		AV-28H5SL
	2	GA10001-074A-U	EURO LABEL		AV-28H5SR
	2	GA10001-016A-U	EURO LABEL		AV-28H5SU
	2	GA10001-015A-U	EURO LABEL		AV-32H5BU
	2	GA10001-020A-U	EURO LABEL		AV-32H5SK
	2	GA10001-075A-U	EURO LABEL		AV-32H5SR
	2	GA10001-014A-U	EURO LABEL		AV-32H5SU
	3	LC11859-001C-U	CUSHION ASSY	4pcs in 1set	AV-28H5BL, AV-28H5BU, AV-28H5SK, AV-28H5SL, AV-28H5SR, AV-28H5SU
	3	LC11861-001C-U	CUSHION ASSY	4pcs in 1set	AV-32H5BU, AV-32H5SK, AV-32H5SR, AV-32H5SU
	4	RM-C1502B-1C	REMOCON		AV-28H5BL, AV-28H5BU, AV-32H5BU
	4	RM-C1502-1C	REMOCON		AV-28H5SK, AV-28H5SL, AV-28H5SR, AV-28H5SU, AV-32H5SK, AV-32H5SR, AV-32H5SU
	5	-----	BATTERY	R6P/AA(x2)	AV-28H5BL, AV-28H5BU, AV-28H5SK, AV-28H5SL, AV-28H5SR, AV-28H5SU, AV-32H5BU, AV-32H5SK, AV-32H5SR, AV-32H5SU
	6	AEM1078-001A-U	POLY BAG		AV-28H5BL, AV-28H5BU, AV-28H5SK, AV-28H5SL, AV-28H5SR, AV-28H5SU, AV-32H5BU, AV-32H5SK, AV-32H5SR, AV-32H5SU
	7	AEM3021-003B-E	DOCUMENT BAGS		AV-28H5BL, AV-28H5BU, AV-28H5SK, AV-28H5SL, AV-28H5SR, AV-28H5SU, AV-32H5BU, AV-32H5SK, AV-32H5SR, AV-32H5SU
△	8	LCT1806-001A-U	INST BOOK	English	AV-28H5SK, AV-32H5SK
△	8	LCT1891-001A-U	INST BOOK	English/German/French/Dutch/Spanish/Italian/Portuguese	AV-28H5SR, AV-32H5SR
△	8	LCT1800-001A-U	INST BOOK	English/German/French/Dutch/Spanish/Italian/Portuguese	AV-28H5BL, AV-28H5BU, AV-28H5SL, AV-28H5SU, AV-32H5BU, AV-32H5SU
△	9	LCT1801-001A-U	INST BOOK	Swedish/Norwegian/Finn/Danish	AV-28H5BU, AV-28H5SU, AV-32H5BU, AV-32H5SU
△	10	QQR0491-001	FERRITE CORE		AV-28H5BL, AV-28H5SL
△	10	LCT1802-001A-U	INST BOOK	Russian/Czech/Polish/Hungarian/Romanian/Bulgarian	AV-28H5BU, AV-28H5SU, AV-32H5BU, AV-32H5SU
	11	-----	WARRANTY CARD	BT-54026-1E	AV-28H5BL, AV-28H5BU, AV-28H5SK, AV-28H5SL, AV-28H5SR, AV-32H5BU, AV-32H5SK, AV-32H5SR
	11	-----	WARRANTY CARD	BT-54023-1E	AV-28H5SU, AV-32H5SU
	12	GA30011-001A-U	REGISTRATION CARD		AV-28H5SK, AV-32H5SK
	13	GA10007-001A-U	STAND CUSHION	2pcs in 1set	AV-28H5SK, AV-32H5SK
	14	GA30017-001A-U	PACKING CASE	For STAND	AV-28H5SK
	14	GA30016-001A-U	PACKING CASE	For STAND	AV-32H5SK
	15	GA30014-001A-U	FIXING KIT		AV-28H5SK, AV-32H5SK
	16	GA40022-001A-U	SHELF SUPPORT	Silver/4pcs in 1set	AV-28H5SK
	16	GA40022-001A-U	SHELF SUPPORT	Silver/4pcs in 1set	AV-32H5SK
	17	GA30015-001A-U	ASSEMBLY INSTRUCTIONS	For STAND	AV-28H5SK, AV-32H5SK

PACKING -2



PACKING PARTS LIST -2

△	Ref.No.	Part No.	Part Name	Description	Local
	1	AEM1002-B76-E	PACKING CASE		AV-28H50SU
	1	QYSBSAG4016NA	TAP SCREW	M4 x 16mm(x8)	AV-32H50SU
	1	GA10002-031A-U	PACKING CASE		AV-32H57SU
	2	GA10001-019A-U	EURO LABEL		AV-28H50SU
	2	GA10001-018A-U	EURO LABEL		AV-32H50SU
	2	GA10001-031A-U	EURO LABEL		AV-32H57SU
	3	GA10039-001A-U	CUSHION ASSY	4pcs in 1set	AV-28H50SU
	3	GA10038-001A-U	CUSHION ASSY	4pcs in 1set	AV-32H50SU,AV-32H57SU
	4	RM-C1502-1C	REMOCON		AV-28H50SU,AV-32H50SU,AV-32H57SU
	5	-----	BATTERY	R6P/AA(x2)	AV-28H50SU,AV-32H50SU,AV-32H57SU
	6	AEM1078-001A-U	POLY BAG		AV-28H50SU,AV-32H50SU,AV-32H57SU
	7	AEM3021-003B-E	DOCUMENT BAGS		AV-28H50SU,AV-32H50SU,AV-32H57SU
△	8	LCT1803-001A-U	INST BOOK	English/German/French/Dutch/Spanish/Italian/Portuguese	AV-28H50SU,AV-32H50SU,AV-32H57SU
△	9	LCT1804-001A-U	INST BOOK	Swedish/Norwegian/Finn/Danish	AV-28H50SU,AV-32H50SU
△	10	LCT1805-001A-U	INST BOOK	Russian/Czech/Polish/Hungarian/Romanian/Bulgarian	AV-32H50SU
	11	-----	WARRANTY CARD	BT-54023-1E	AV-32H50SU
	11	-----	WARRANTY CARD	BT-54026-1E	AV-32H57SU,AV-28H50SU